D-24 Personal Computer Data Input for Nuclear Regulatory Commission Licensees

November 2008

A booklet of guidance for data submissions to NMMSS using electronic formats

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, make any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

November 2008 Update to D-24

As noted in the October 15, 2008 special edition of the NMMSS News, effective October 6, 2008, users are to submit their NMMSS data to the U.S. Department of Energy's Savannah River Site. All of the following methods of transmitting data to NMMSS are operational as of October 6, 2008:

Unclassified Fax: (803) 725-9819 Classified Fax: (803) 725-9817

Surface Mail - marked "MEDIA ENCLOSED - DO NOT X-RAY"

Unclassified Mailing Address: Savannah River Nuclear Solutions

NMMSS Operations Building 703-45A Aiken, SC 29808

Classified Mailing Address:

Inner Envelope: Outer Envelope:

U.S. Department of Energy

U.S. Department of Energy

Savannah River Site Savannah River Site

ATTN: NMMSS, Intended Recipient ATTN: CO Group, 773-A, A-0260

P.O. Box A

Aiken, SC 29802 Aiken, SC 29802

Unclassified email: NMMSS@srs.gov

SIMEX Routing: RHEGSRO

Classified Bulletin Board: (803) 725-9816

Unclassified Bulletin Board: (803) 725-9813, (803) 725-9814

NMMSS Operations Center: (803) 725-9810 NMMSS Help Desk for NRC Licensees: (803) 725-9811 NMMSS Help Desk for DOE Sites: (803) 725-9812

The following Savannah River Site staff members are now part of NMMSS Operations:

Jerry O'Leary	(803) 725-8582	jerry.oleary@srs.gov
JR Ludwick	(803) 725-6824	donald.ludwick@srs.gov
Marvin Moore	(803) 725-3824	marvin.moore@srs.gov
John Robichaux	(803) 725-9135	john.robichaux@srs.gov

Reader's Comment Form

$\frac{NMMSS\ Personal\ Computer\ Data\ Input\ for\ NRC\ Licensees}{D\text{-}24}$

NMMSS welcomes comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision. Please tell us...

Your input is an importa	nt part of the information used for revision. Please tell us					
D	Did you find any errors? Yes No Information clearly presented? Do you need more information? Are the examples correct? Do you need more examples?					
What features did yo	u like most about this guide?					
What features did you like least about this guide?						
	r have any other suggestions for improvement, please apter, and page number below:					
Please send your comme	ents to:					
A' G 10	.S. Department of Energy ITN: NMMSS Project Director, HS.1-22 ermantown Bldg. 100 Independence Avenue, NW Vashington, DC 20585-1290					
If you would like a reply,	please give your name, address, and telephone number below:					
Name:						
Address:						
Telephone:						
Than	nk you for helping us to improve our documentation!					

TABLE OF CONTENTS

1. INTRODUCTION	2
1.1. Reporting Guidelines	2
1.2. Purpose	
1.3. Acceptable Electronic Formats	
1.3.1. Extensible Markup Language (XML) File Format	
1.3.2. 80 Column File Format	
1.4. Understanding the Format Presentation	
1.5. File Creation.	
1.6. Data Submission Methods	
2. TRANSACTION DATA	
2.1. Requirements for DOE/NRC Form 741 and Concise Notes	
2.1.1. XML File Formatting	
2.1.2. 80 Column File Formatting	
Header Information (Data Code 1)	
Detail Information (Data Code 2)	
Quantitative Detail Information (Data Code 5)	
Import/Export Detail Information (Data Code 3)	
Packaging Detail Information (Data Code 4)	
Obligation Information (Data Code 7)	
3. INVENTORY DATA	
3.1. Requirements for DOE/NRC Form 742C	16
3.1.1. XML File Formatting	16
3.1.2. 80 Column File Formatting	18
Physical Inventory Listing Header Information (Data Code 1)	18
Physical Inventory Listing Detail Information (Data Code 2)	
Physical Inventory Listing Header Information for Reporting Total Line	
Code 1)	20
4. MATERIAL BALANCE DATA	21
4.1. Requirements for DOE/NRC Form 742	
4.1.1. XML File Formatting	
4.1.2. 80 Column File Formatting	
Material Balance Report Detail Information (Data Code 3 & 4)	
•	
APPENDIX A Process Code	24
APPENDIX B Negative Number Conversion	25
APPENDIX C Examples	

1. INTRODUCTION

1.1. Reporting Guidelines

Refer to the current version of the NRC Instructions for Completing Nuclear Materials Transaction Reports; NUREG/BR-0006 and Instructions for Completing Material Balance Report and Physical Inventory Listing NUREG/BR-0007 for specific NRC requirements in reporting data to the NMMSS. These documents specify that data submissions may be made in acceptable electronic forms to the NMMSS and provide the information necessary for completing the source documents (forms) referenced in this directory.

NRC licensees required to report government owned material to NMMSS should refer to the **D-23**, **Personal Computer Data Input for Department of Energy Contractors** for guidance in the electronic reporting of this material.

1.2. Purpose

This directory provides formatting requirements for the reporting of nuclear material information in electronic file formats to the Nuclear Materials Management Safeguards System (NMMSS) in accordance with the Nuclear Regulatory Commission (NRC) guidelines. A reporting licensee has the option to prepare reported data in an electronic file using the formats presented here using a variety of word processing programs text editors, or programmatically in Material Control and Accountability Systems. This data is then saved as a text file and sent to NMMSS via diskette, CD, Zip disk, SIMEX, Direct Link, or electronic mail.

1.3. Acceptable Electronic Formats

The primary formats accepted by NMMSS for electronic data transfer are eXtensible Markup Language (XML) and 80 Column file format files created in the MSDOS or Windows based environments. New technologies are constantly being developed to improve data management. As these methods are tested and analyzed by NMMSS staff, revisions will be made to data input procedures and guidelines. Visit the NMMSS website, www.nmmss.com, for the latest information and guidelines.

A third alternative for submitting electronic data to NMMSS is the use of the Safeguards Management Software (SAMS) for transcribing reported data into a machine readable format. This software is currently available at no charge from NMMSS.

For more information concerning the individual data fields refer to the NMMSS Report D-21, "NRC Licensee Reference Manual."

1.3.1. Extensible Markup Language (XML) File Format

The XML format may also be referred to as tagged data as it is based upon the use of tags (words bracketed by '<' and '>') and attributes (of the form name="value"). The NMMSS XML data submission format uses specific tags to establish the limits of units of data. An advantage of using XML is that data is represented by tags which identify the values

being reported; however, these tags must be entered exactly as specified or they will not be recognizable to the import programs.

The rules for XML files are strict. The following conditions will cause a failure in an XML data import:

- □ A tag entered incorrectly (For example; using the wrong tag name, inserting spaces, or using improper capitalization).
- □ A missing tag.
- □ A missing end tag indicator (designated by the /) for every opening tag.
- □ A data attribute without surrounding quotes.

Field sizes of reported data may be adjusted to fit the value, instead of requiring additional spaces to meet the allocated size as seen in the 80 Column file formats. The reported data is entered into double quotes to the right of the attribute tag. Then, the file is saved as a text file using a file extension of .xml and submitted to NMMSS.

The use of the following characters inside the double quotes surrounding the value may be forced to be accepted by substituting the following code shown in the table below in place of the character. For example; to report a text comment such as Insert batch id 'Batch6a' in block 24D. The tag value would need to be expressed as "Insert batch id 'Batch6a' in block 24D."

Character	Code
•	'
"	"
&	&
<	<
>	>

Each type of reported data; Inventory, Transaction, and Material Balance, has specific tags as shown in more detail under each section of this document. Data codes, which are necessary to identify the data in the 80 Column file format, are inferred by the XML tag structure and therefore are not required. Refer to the individual data sections for additional details. Additional resources are available about XML online from the following websites:

- □ www.w3schools.com
- www.ucc.ie/xml/

1.3.2. 80 Column File Format

The 80 Column file format is a method for submitting data to NMMSS that directly correlates the columnar position of data in a text file with the related hardcopy data submission forms. In the 80 Column file format the identity of the data is interpreted by its columnar position in the file. For each type of reported data the data is entered according to a precise position within a text file that is then saved and submitted to NMMSS. Each line of data begins with basic identifying information and a data code (sometimes called a record type indicator) that indicates the type of information on the rest of the line. The repetition of the basic identifying information on each line allows the

data to be linked with the new information. Allocated spaces for each data field are constant and cannot be adjusted. See the sections in this directory for each specific type of reported data and the precise placement and format of 80 Column file.

1.4. Understanding the Format Presentation

Within each format table presented in this directory the form identifier is listed along with the block identification number or number character combination found on the form. 80 Column file formatting will list the range of columns where the corresponding block of data is to be placed within the text file. XML tables will display the tag identifier (XML attribute) to be used for this block.

The <u>Type</u> column defines the form and length of the accepted data. For example, 'Char(1)' indicates that the data will consist of a single character (letter or number) and 'Char(20)' indicates that the data will consist of 20 characters, letters, numbers, or any combination. Generally, character based data fields are set to the left side of the allocated columns in an 80 Column file format; i.e. left justified. 'Date' indicates the data is a calendar date and will be accepted in a specified format. 'Num(11,2)' indicates the data is restricted to numbers and has an overall length of 11 numbers of which two are to the right of the decimal. Generally, these are set to the right side of the allocated columns in an 80 Column file format; i.e. right justified. Note, that the decimal portion is a part of the number length. When the type specifies a decimal length, a value must be entered to accommodate the decimal positions. For example, if the type is specified as Num(11,2) and the number value to be submitted is the whole number 15; entering 15 into either 80 Column or XML formats will be interpreted as 0.15. **The use of decimal points is not allowed in either format**. The whole number 15 should be entered as 1500.

The <u>Essential</u> column indicates the minimum requirement of data for successful file import when a '\sqrt' is present in the column. This column does not indicate the necessity of data required by the NRC to be reported; only the requirement for a successful file import into NMMSS.

The <u>Note</u> column lists any remarks that will indicate special instructions, such as the format to be used or a value that remains constant. Note all dates are to be entered in the format MMDDYYYY. This means that dates will be reported with their two-digit month indication followed by the two digit date indication and the four digit year. Note, also that negative numbers are generally permitted and indicated by the placement of a minus sign (-) to the left of the number. In addition, negative number values may be represented by character values. The chart for converting a negative number to a character is provided in Appendix B.

1.5. File Creation

In order to process electronic data without creating reporting errors the data must be created in data files that are free of formatting characters. Tabs are one of the formatting characters that will introduce errors into a file. Always use the space bar to create delineation between data fields. Many text editors such as Microsoft Word or Word Perfect, will add symbols to a file saved by the default method in order to maintain a finished look. This is overcome by saving the file (in any text editor) specifying the SAVE AS option and designating the file as a text file which removes the formatting characters. This will prevent most extraneous characters

from being added to the file. Always review each data file created to verify that no extraneous characters were added. An example of an 80 Column file format inventory data file that has been saved with extraneous formatting characters is shown in Example 1. The correct format using the same data is shown in Example 2.

Example 1; 80 Column data file with extraneous data that creates errors.

Example 1, 80 Column data the with extraneous data that creates errors.
ĐÏ à¡± á > þÿ ! # þÿÿÿ ÿÿÿÿÿÿ6 ´ ¨ Š L\$ J F ¾
6 6 ‡ 0 · 6 y ¾ y 6 Ù 101312002AAA 10 861 3329900
20900JNS456-999Y 000 J 000001
101312002AAA 10 861 992300 90020NSJ564-669Y 000 J 000001
101312002AAA E4 864 1600 1488SNS4781341Y 000 J 000003
V ¬ ûû ý 200 &P 1 F °Ð/
°à=!° "° # \$ %° °Â °Â i 8@ñÿ 8 Normal CJ D @ D
\$ ¤x @& 5 CJ OJ QJ aJ J @ J Default Paragraph Font
€ 0 € € ÿÿ V V p@ÿÿ Unkÿÿÿÿ ÿÿ
G ‡z € ÿ Times New Roman 5
€ Symbol 3& ‡z € ÿ Y 000000J000001 0 - 013-
Normal.dot A- hi d- 1 II- Microsoft Word 9.0 6@ @ 0\$ Â @ 0\$ Â %
Ô þÿ ÕÍÕœ. "— +,ù®0 X

Example 2; Same 80 Column data file without the extraneous data that cause errors.

101312002AAA 10 861	3329900	20900JNS456-999Y 000) J 000001
101312002AAA 10 861	992300	90020NSJ564-669Y 000	0 J 000001
101312002AAA E4 864	1600	1488SNS4781341Y 000) J 000003

A file extension should be assigned which indicates the type of file format used. For example, a file submitted in an 80 Column format may end in .txt or any other preferred variation; an XML file should always end in .xml.

1.6. Data Submission Methods

Contact the NMMSS staff, (803) 725-9811, for additional directions regarding the use of SIMEX, Direct Link, or electronic mail. Electronic data may be mailed through the U.S. Postal Service on electronic media to the following address.

U.S. Department of Energy Savannah River Nuclear Solutions NMMSS Operations, Bldg. 703-45A Aiken, SC 29808

(For classified documents) Refer to SIMS for a classified address (For unclassified documents) Attn: NMMSS Project / Jerry O'Leary

When mailing electronic media to NMMSS label the media with the following information:

- Licensee's RIS (Reporting Identification Symbol of the data source)
- Name and telephone number of the person to contact if there are problems or questions
- Name of the data file
- Any special instructions, comments or explanations.

Note; A printed listing of the electronic data may be included with the electronic media may expedite data processing in the event a damaged disk is received. It is not necessary to include the DOE/NRC forms when submitting data electronically to the NMMSS.

2. TRANSACTION DATA

2.1. Requirements for DOE/NRC Form 741 and Concise Notes

2.1.1. XML File Formatting

An example of transaction submission in XML format is shown below. Additional examples are shown in Appendix C along with the corresponding DOE/NRC forms.

```
<TRANSACTIONS>
 <SHIPMENT SHIPPERRIS="ABC" RECEIVERRIS="DEF" TRANSFERNUMBER="131" CORRECTION=""</p>
PROCESSCODE="A" ACTIONCODE="A" NUMBEROFLINES="1" NATUREOFTRANSACTION="W"
SHIPPEDFORRIS="FGG" SHIPPEDTORIS="HIJ" TRANSFERAUTHORITY="" UKFLAG="N"
ACTIONDATE="12312002" LICENSENUMBER="987654321" TOTALGROSSWEIGHT="20081"
TOTALVOLUME="45645" CONCISENOTEIND="Y" SEALEDSOURCE="" TOTRANSFERAUTHORITY="">
  <CONCISENOTE LINENUMBER="1" ENTRYREFERENCE="Whole report" TEXTOFCONCISENOTE="Note text</p>
goes here">
  </CONCISENOTE>
  <OBLIGATION LINENUMBER="1" COUNTRYCODE="32" SUMMARYMATERIALTYPE="10"</p>
ELEMENTWEIGHT="1233300" ISOTOPEWEIGHT="99900">
  </OBLIGATION>
  <LINEITEM LINENUMBER="1" BATCH="Batch 0411h" NUMBEROFITEMS="5" BACKREFLINENUMBER="">
    <ELEMENT ELEMENTWEIGHT="45555500" ELEMENTLOE="5">
     <MATERIAL SUMMARYMATERIALTYPE="10" PROJECT="" COEILINENUMBER="809"</p>
TYPEINVENTORYCHANGE="" OWNER="J" KEYMEASUREPOINT="W" MEASUREBASIS="E"
OTHERMEASUREPOINT="R" MEASUREMETHOD="T" GROSSWEIGHT="" NETWEIGHT="" TOPROJECT=""
TOCOEILINENUMBER="">
      <ISOTOPE WEIGHTPERCENT="16000" ISOTOPEWEIGHT="45600" ISOTOPELOE="65">
      </ISOTOPE>
     </MATERIAL>
   </ELEMENT>
  </LINEITEM>
 </SHIPMENT>
</TRANSACTIONS>
```

Root Tag <TRANSACTIONS>

Header Information <SHIPMENT>

Field Description	<u>741</u>	XML Attribute	<u>Type</u>	Essential	<u>Note</u>
Shipper RIS	1	SHIPPERRIS	Char(4)	\checkmark	
Receiver RIS	2	RECEIVERRIS	Char(4)	\checkmark	
Transaction/Transfer Number	3	TRANSFERNUMBER	Char(6)	\checkmark	
Correction Number	4	CORRECTION	Char(1)		
Process Code	5	PROCESSCODE	Char(1)	\checkmark	See Appendix A.
Action Code	6	ACTIONCODE	Char(1)	\checkmark	
Number of Data Lines	10	NUMBEROFLINES	Num(2)	\checkmark	
TI Code/Nature of Transaction	¹ 11	NATUREOFTRANSACTION	Char(1)		
RIS For Account ²	12b	SHIPPEDFORRIS	Char(4)		
RIS To Account ²	13b	SHIPPEDTORIS	Char(4)		
Transfer Authority	14	TRANSFERAUTHORITY	Char(17)		

¹ Leave blank.

² Leave blank.

IAEA UK Reportable ³	23c	UKFLAG	Char(1)	"R" indicates Yes "N" indicates No
Action Date	22	ACTIONDATE	Date	MMDDYYYY
License Number	15	LICENSENUMBER	Char(10)	
Total Gross Weight	24	TOTALGROSSWEIGHT	Num(10)	Whole numbers
Total Volume ⁴	25	TOTALVOLUME	Num(9)	Whole numbers
Concise Note Indicator	23b	CONCISENOTEIND	Char(1)	X indicates notes
Sealed Source Serial Number	5	SEALEDSOURCE	Char(10)	List tag only
Receiving Transfer Authority ⁵		TOTRANSFERAUTHORITY	Char(17)	List tag only

Concise Note Information < CONCISENOTE>

Field Description	<u>740M</u>	XML Attribute	<u>Type</u>	Essential Note
Line Number	7a	LINENUMBER	Num(2)	\checkmark
Entry Reference	7b	ENTRYREFERENCE	Char(16)	\checkmark
Concise Note Text	7c	TEXTOFCONCISENOTE	Char(39)	\checkmark

Obligation Information < OBLIGATION>

Field Description	<u>741</u>	XML Attribute	<u>Type</u>	Essential Note
Line Number	17	LINENUMBER	Num(2)	\checkmark
Country	18	COUNTRYCODE	Char(2)	
Material Type	19	SUMMARYMATERIALTYPE	Char(2)	\checkmark
Obligated Element Weight	20	ELEMENTWEIGHT	Num(11,2)	\checkmark
	Do not en	ter a decimal point; the right-most	two digits ar	re considered decimal values.
Obligated Isotope Weight ⁶	21	ISOTOPEWEIGHT	Num(11,2)	\checkmark
	Do not en	ter a decimal point; the right-most	two digits ar	re considered decimal values.

Detail Information <LINEITEM>

Field Description	<u>741</u>	XML Attribute	<u>Type</u>	Essential Note
Back Reference Number ⁷	26/27 a	BACKREFLINENUMBER	Char(3)	Adjustments Only Zero fill blanks
Line Number	26/27 b	LINENUMBER	Num(2)	\checkmark
Batch Name/Identification	26/27 d	BATCH	Char(16)	
Number of Items	26/27 e	NUMBEROFITEMS	Num(2)	

_

³ Reporting "R" indicates that the UK data is reportable to the IAEA. Reporting "N" indicates that the UK data is not reportable to the IAEA. Leave this field blank for data that does not involve UK facilities.

⁴ Report total volume in cubic feet for material transferred to or from a nuclear waste management facility (RIS beginning with "V").

⁵ Sealed Source and Receiving Transfer Authority do not apply to NRC data submissions but the tag must be listed in the XML file for successful data import.

⁶ Obligated Isotope Weight is required for Enriched Uranium only.

⁷ Back Reference Number; the first character is the correction identifier. The second and third characters are the line number referenced. When reported, insert zeros for blank values.

Detail Information < ELEMENT>

Field Description	<u>741</u>	XML Attribute	<u>Type</u>	Essential Note
Element Weight	26/27 n	ELEMENTWEIGHT	Num(11,2)	✓8

Do not enter a decimal point; the right-most two digits are considered decimal values.

Element Limit of Error 26/27 o ELEMENTLOE Num(5)

Do not enter a decimal point; all digits are considered decimal values.

Do not enter a decimal point; all digits are considered decimal values.

Detail Information < MATERIAL>

Field Description	<u>741</u>	XML Attribute	<u>Type</u>	<u>Essential</u>	<u>Note</u>
Material Type	26/27 g	SUMMARYMATERIALTYPE	Char(2)	\checkmark	
Project Number ⁹	26/27 f	PROJECT	Char(10)		
Composition Facility Code	26/27 h	COEILINENUMBER	Char(4)		
Type of Inventory Change	26/27 c	TYPEINVENTORYCHANGE	Char(2)		
Owner Code	26/27 i	OWNER	Char(1)	\checkmark	
Key Measurement Point	26/27 j	KEYMEASUREPPOINT	Char(2)		
Measurement Basis	26/27 k1	MEASUREBASIS	Char(1)		
Other Measurement Point	26/27 k2	OTHERMEASUREPOINT	Char(2)		
Measurement Method	26/27 k3	MEASUREMETHOD	Char(1)		
Gross Weight ¹⁰	26/27 I	GROSSWEIGHT	Num(5)		
Net Weight ¹⁰	26/27 m	NETWEIGHT	Num(5)		
Receiving Project Number 11		TOPROJECT	Char(10)		List tag only
Receiving Composition Facility	/ Code ¹¹	TOCOEILINENUMBER	Char(4)		List tag only

Detail Information <ISOTOPE>

Field Description	<u>741</u>	XML Attribute	<u>Type</u>	Essential Note
Weight Percent Isotope/Parts Per Million	n 26/27 p	WEIGHTPERCENT	Num(6,4) ¹²	
Do not ente	r a decima	I point; the right-most fo	ur digits are co	onsidered decimal values.
Isotope Weight	26/27 q	ISOTOPEWEIGHT	Num(11,2)	\checkmark^8
Do not ente	er a decima	al point; the right-most to	vo digits are co	onsidered decimal values.
Isotope Limit of Error	26/27 r	ISOTOPELOE	Num(5)	

^{*} This data is required when other data is present at this level of detail.

_

⁸ Element or Isotope weight may be essential to successful file import depending on the specified material type.

⁹ Leave blank. (Required when reporting government owned material.)

¹⁰ Gross Weight and Net Weight may be reported, but are not captured by NMMSS at this time.

¹¹ Receiving Project Number and Receiving Composition Facility Code do not apply to NRC data submissions but the tag must be listed in the XML file for successful data import.

Weight Percent Isotope/Parts Per Million is reported as a percentage except when the material type is 70 (total uranium enriched in U-233), which is reported using 6 numeric digits and converted to decimal form by NMMSS.

2.1.2. 80 Column File Formatting

An example of a transaction submission in an 80 column file format document is shown below. Additional examples are shown in Appendix C along with the corresponding DOE/NRC forms. Note that gridlines and the numbering structure at the top are not a part of the data submission. They are provided for demonstration purposes only

	Ī		П	Т	1	Т	Т			Т	Т	Т	2	Т	Т	Т	П	П	Т	Т	3		П	Т	Т	Т	Т	П		4	Т	Т		Т	Т	Т	П	5	Т	Т	П	Т	Т	Т	Г	6	П	Т	Т	Т	Т	Т	П	П	7	Т	Т	П	Т	Т	Т	П	8
1 2 3	4	5 6	7 8	B 9	0 -	1 2	3	4	5	6 7	7 8	9	0	1 2	2 3	4	5	6	7 (3 9	0	1	2	3 4	4 5	6	7	8	9	0 1	2	2 3	4	5 1	6 7	8	9	0 1	2	3	4	5 6	3 7	8	9	0	1	2 :	3 4	1 5	6	7	8	9	0 -	1 2	3	4	5 1	6 7	7 8	9	0
ABC	:	DΕ	F			1	3	1		Α	P	1	0	3	ł		H		+		ŀ		+		+	t	H				ł								t				ł	H		Н	+	+	+	t				+	1 2	2 3	1	2	0 (0 2	2		+
ABC	:	DΕ	F		П	1	3	1		Α	A	2	0	1	Т	Α		В	Α.	T (Ή		ı	D	Т	Т	Г			Т	Т	1				Т			Т	Т	1	0 3	3 0	9	Г	П	J	Т	Т	Т	Т	Т			Т		Г	П		Т			
ABC	:	DΕ	F	Т	П	1	3	1		Α	A	5	0	1	Т	Т			Т		Г				Т	Т	Г			Т	Т	Т		T		Т	4	2 €	0	0	П		T	Т	Г	П	6	6 ′	1 ()	Т	Т			Т		3	0	0	T		П	
ABC	:	DΕ	F		П	1	3	1		Α	1	2	0	2	T	Α		В	Α.	T (Ή		ı	D	T	T				T	T	1				T	П		T	T	2	0 3	3 0	9	Г	П	J	T		T		T			T		Г	П		T		П	
ABC	:	DΕ	F	Т	П	1	3	1		Α	A	5	0	2	Т	Т			T		Г				Т	Т	Г			Т	Т	Т		T		2	2	1 3	0	0	П		T	Т	Г	2	5	3 () :	5	Т	Т			Т	5	6	0	0	T		П	
ABC	:	DΕ	F		П	1	3	1		Α	P	2	0	3	T	Α		В	A.	T (H		ı	D		T				T		1				Т	П		T	Т	5	0 3	3 0	9	Г	П	J	T										П		T		П	
ABC	:	DΕ	F		П	1	3	1		Α	1	5	0	3												T										T	9	0 1	0	0	П				9	9	3	3 4	1 ()					1	3 9	5	0	0	T		П	
ABC		DΕ	F		П	1	3	1		Α	1	4		T	T	T			T	Ť	T			\top	Ť	T	Т			\top	T	T		\top		T	П	\top	T	T	П	\top	T	T	Т	П		2 (0 () 8	1	T			T	T	T	П		Ť	T	П	

Header Information (Data Code 1)

Field Description	<u>741</u>	80 Colu Format	<u>mn File</u> Position			
		<u>Begin</u>	<u>End</u>	<u>Type</u>	Essential	<u>Note</u>
Shipper RIS	1	1	4	Char(4)	\checkmark	Left justified
Receiver RIS	2	5	8	Char(4)	\checkmark	Left justified
Transaction/Transfer Number	3	9	14	Char(6)	\checkmark	Right justified
Correction Number (Change Digit)	4	15	15	Char(1)		
Process Code	5	16	16	Char(1)	\checkmark	See Appendix A
Action Code	6	18	18	Char(1)	\checkmark	
Data Code	-	19	19	Num(1)	\checkmark	Value is 1
Number of Data Lines	10	20	21	Num(2)		
TI Code/Nature of Transaction ¹³	11	22	22	Char(1)		
RIS For Account ¹⁴	12	23	26	Char(4)		Left justified
RIS To Account ¹⁴	13	27	30	Char(4)		Left justified
Transfer Authority	14	34	50	Char(17)		Left justified
IAEA UK Reportable ¹⁵	23c	69	69	Char(1)		"R" indicates Yes "N" indicates No
Action Date	22	70	77	Date		MMDDYYYY
Concise Note Indicator	23b	80	80	Char(1)		X indicates notes

Visual representation of field p	lacement in 8	80 Column File format	ting of transaction	header information.
741A Header Information (Data Code 1)				
1 2 3 4 5 6 7 8 9 10 11 12	2 13 14 15 16 17	17 18 19 20 21 22 23 24 25	26 27 28 29 30 31 32	33 34 35 36 37 38 39 40
Shipper RIS Receiver RIS Transfer	Num CoPC	AQDC[#Line] T RIS For A	Acct RIS To Acct	Tran
41 42 43 44 45 46 47 48 49 50	51 52 53 54 55	56 57 58 59 60 61 62 63	64 65 66 67 68 69 70 7	1 72 73 74 75 76 77 78 79 80
ansfer Authority			U	Action Date C

¹³ Leave blank.

¹⁴ Leave blank.

¹⁵ Reporting "R" indicates that the UK data is reportable to the IAEA. Reporting "N" indicates that the UK data is not reportable to the IAEA. Leave this field blank for data that does not involve UK facilities.

Detail Information (Data Code 2)

Field Description	<u>741</u>	80 Colu Format	mn File Position			
		<u>Begin</u>	<u>End</u>	<u>Type</u>	Essential	<u>Note</u>
Shipper RIS	1	1	4	Char(4)	✓	Left justified Repeat for each line
Receiver RIS	2	5	8	Char(4)	✓	Left justified Repeat for each line
Transaction/Transfer Number	3	9	14	Char(6)	\checkmark	Right justified Repeat for each line
Correction Number (Change Digit)	4	15	15	Char(1)		Repeat for each line
Process Code	5	16	16	Char(1)	\checkmark	Repeat for each line See Appendix A.
Action Code	6	18	18	Char(1)	\checkmark	Repeat for each line
Data Code	-	19	19	Num(1)	\checkmark	Value is 2
Line Number	26/27 b	20	21	Num(2)	\checkmark	Zero fill blanks
Type of Inventory Change	26/27 c	22	23	Char(2)		
Batch Name/Identification	26/27 d	24	39	Char(16)		Left justified
Number of Items	26/27 e	40	43	Num(4)		Right justified
Project Number ¹⁶	26/27 f	44	53	Char(10)		Left justified
Material Type	26/27 g	54	55	Char(2)		Left justified
Composition-Facility Code	26/27 h	56	59	Char(4)		Left justified
Owner Code	26/27 i	61	61	Char(1)		
Key Measurement Point	26/27 j	70	71	Char(2)		Left justified
Measurement Basis	26/27 k1	72	72	Char(1)		
Other Measurement Point	26/27 k2	73	74	Char(2)		Left justified
Measurement Method	26/27 k3	75	75	Char(1)		
Back Reference Number ¹⁷	26/27 a	76	78	Char(3)		Adjustments Only Zero fill blanks

Visual repre	sentation	of field	placer	nent	in	80 c	olun	nn f	ile f	orn	att	ing	g of	tra	nsa	ctio	n de	tai	l in	fori	na	tion		
741A Detail Infor	mation (Data	Code 2)																						
1 2 3 4 5	5 6 7 8	9 10 11	12 13	14 15	16	17 1	8 19 :	20 2	1 22	23 2	4 25	5 26	27	28	29 3	0 31	32 3	33 3	4 35	36	37	38 3	9 40	Ι
Shipper RIS R	Receiver RIS	Transi	fer Num	Co	PC	A	фdi	Line#	TI.	сT						Bat	ch ID							4
Ī																								
1 41 42 43	44 45 46 4	7 48 49	50 51 52	53 !	54 55	56	57 58	3 59	60 6	31 62	63	64	65 6	6 67	68	69	70 7°	1 72	73	74 7	75 7	6 77	78	79 80
# Items		Project#	ŧ		ΜT	C	mp C	ode									KMP	МЬ	ON	1P N	lп	BRe	f#	

Leave blank. (Required when reporting government owned material.)

17 Back Reference Number; the first character is the correction identifier. The second and third characters are the line number referenced. When reported, insert zeros for blank values.

Quantitative Detail Information (Data Code 5)

Field Description	<u>741</u>	80 Colu Format Position				
		<u>Begin</u>	<u>!</u> <u>End</u>	<u>Type</u>	<u>Essential</u>	<u>Note</u>
Shipper RIS	1	1	4	Char(4)	✓	Left justified Repeat for each line
Receiver RIS	2	5	8	Char(4)	✓	Left justified Repeat for each line
Transaction/Transfer Number	3	9	14	Char(6)	✓	Right justified Repeat for each line
Correction Number (Change Digit)	4	15	15	Char(1)		Repeat for each line
Process Code	5	16	16	Char(1)	\checkmark	Repeat for each line
Action Code	6	18	18	Char(1)	\checkmark	Repeat for each line
Data Code	-	19	19	Num(1)	\checkmark	Value is 5
Line Number	26/27 b	20	21	Num(2)	\checkmark	
Gross Weight ¹⁸	26/27 I	22	26	Num(5)		Right justified
Net Weight ¹⁸	26/27m	27	31	Num(5)		Right justified
Miscellaneous Field ¹⁹		32	35	Num(4)		
Element Weight	26/27 n	43	53	Num(11,2)	\checkmark	Right justified
Do not enter a d	decimal po	int; elen	nent de	cimal values a	are read fro	om columns 52 and 53.
Element Limit of Error	26/27 o	54	58	Num(5)		Right justified
	Do not	enter a				sidered decimal values.
Weight Percent Isotope/Parts Per Million			64	Num(6,4) ²⁰		Right justified
Do not enter a decimal point; weig	-	-				_
Isotope Weight	26/27 q		75	Num(11,2)		Right justified
	-		•			om columns 74 and 75.
Isotope Limit of Error	26/27 r	_	80	Num(5)		Right justified
Do	not enter	a decim	nal poin	t; decimal is o	determined	by material description.

Note: If both the element weight and isotope weight are zero, there is no need to submit a data line for data code 5.

Visual representation of field placement in 80 Column File formatting	of transaction detail information.
741A Detail Information (Data Code 5)	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	28 29 30 31 32 33 34 35 36 37 38 39 40
Shipper RIS Receiver RIS Transaction Num CoPC AQDO[Line#] Gross Weight	Net Weight
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 6	7 68 69 70 71 72 73 74 75 76 77 78 79 80
Element Weight Ele Limit of Error Weight %	Isotope Weight Iso Limit of Error

 Gross Weight and Net Weight may be reported, but are not captured by NMMSS at this time.
 Miscellaneous field, available for use by fuel fabricators to communicate to reactor facilities the obligations per full element. This information may be reported but is not captured by NMMSS.

Weight Percent Isotope/Parts Per Million is reported as a percentage except when the material type is 70 (total

uranium enriched in U-233), which is reported using 6 numeric digits and converted to decimal form by NMMSS.

Import/Export Detail Information (Data Code 3)

Field Description	<u>741</u>	80 Colur Format I				
		<u>Begin</u>	<u>End</u>	<u>Type</u>	Essential	<u>Note</u>
Shipper RIS	1	1	4	Char(4)	✓	Left justified Repeat for each line
Receiver RIS	2	5	8	Char(4)	✓	Left justified Repeat for each line
Transaction/Transfer Number	3	9	14	Char(6)	✓	Right justified Repeat for each line
Correction Number (Change Digit)	4	15	15	Char(1)		Repeat for each line
Process Code	5	16	16	Char(1)	\checkmark	Repeat for each line
Action Code	6	18	18	Char(1)	\checkmark	Repeat for each line
Data Code	-	19	19	Num(1)	\checkmark	Value is 3
License Number (Import/Export)	15	22	31	Char(10)		Left justified

Note; if no applicable license number is reported, there is no need to submit a data line for data code 3.

Visual repr	esenta	tion	of fi	ield	pla	cem	ent	in	80	Col	un	nn I	ile	for	ma	tti	ng	of	tra	ns	acti	on (det	ail	in	for	ma	tio	n.	
741A Transport	ation Inf	ormat	ion (D)ata (Code	3)																								
1 2 3 4	5 6	7 8	9 10) 11	12	13 14	15	16	17 1	8 19	9 20	21	22 2	23 2	4 2	5 2	6 27	7 28	8 29	30	31	32	33 :	34 :	35 :	36 3	37 3	8 3	9 40	T
Shipper RIS F	Receive	RIS	Tran	nsact	ion N	Jum	Col	•d	1	(db)	3				Lio	ens	e Ni	umb	er											Ī
41 42 43	44 45	46 47	48	49 5	51	52 !	53 54	1 55	56	57	58	59 6	0 61	62	63	64	65	66	67	68	69 7	7	72	73	74	75	76	77	78	79 80
						П																								

Packaging Detail Information (Data Code 4)

Field Description	<u>741</u>		ımn File Position			
		<u>Begin</u>	<u>End</u>	<u>Type</u>	Essential	<u>Note</u>
Shipper RIS	1	1	4	Char(4)	✓	Left justified Repeat for each line
Receiver RIS	2	5	8	Char(4)	✓	Left justified Repeat for each line
Transaction/Transfer Number	3	9	14	Char(6)	✓	Right justified Repeat for each line
Correction Number (Change Digit)	4	15	15	Char(1)		Repeat for each line
Process Code	5	16	16	Char(1)	\checkmark	Repeat for each line
Action Code	6	18	18	Char(1)	\checkmark	Repeat for each line
Data Code	-	19	19	Num(1)	\checkmark	Value is 4
Total Gross Weight	24	57	66	Num(10)		Right justified Whole number
Total Volume ²¹	25	67	75	Num(9)		Right justified Whole number

Note; if total gross weight and/or total volume is not reported, there is no need to submit a data line for data code 4.

Visu	ıal	re	pre	ese	nta	tio	n (of f	iel	d p	lac	en	ien	ıt i	n 8	0	Co	lun	nn l	File	e fo	rn	at	ting	g of	f tr	an	sac	tio	n]	pa	ck	age	e i	nfo	rn	at	ion	۱.	
741A	Pa	icka	ging	j Info	orm	atio	n (D)ata	Со	ide 4	F)																													
1	2	3	4	5	6	7	8	9 1	0	11 1	2 1	3 14	1 1	5 1	3 1	7 1	8 1	19 2	0 21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Ī	
Ship	ppe	r BIS	3 F	Rec	eive	r RI:	s	Tra	nsa	ctio	n N	um	С	aРı	3	Α	ф	d																					Ι	
ľ .																																								
	41	1 42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61 (62 6	3 6	4 6	5 6	6 6	7 6	8 6	9 71	7 [0	1 7	2	73	74	75	76	77	78	79	80
																			То	tal (àros	s V	eigł	ıt					Tot	al V	olu	me								

²¹Report total volume in cubic feet for material transferred to or from a nuclear waste management facility (RIS beginning with "V").

Obligation Information (Data Code 7)

Field Description	<u>741</u>		<u>ımn File</u> : Position			
		Begin	<u>End</u>	<u>Type</u>	Essential	<u>Note</u>
Shipper RIS	1	1	4	Char(4)	✓	Left justified Repeat for each line
Receiver RIS	2	5	8	Char(4)	✓	Left justified Repeat for each line
Transaction/Transfer Number	3	9	14	Char(6)	✓	Right justified Repeat for each line
Correction Number (Change Digit)	4	15	15	Char(1)		Repeat for each line
Process Code	5	16	16	Char(1)	\checkmark	Repeat for each line
Action Code	6	18	18	Char(1)	\checkmark	Repeat for each line
Data Code	-	19	19	Num(1)	\checkmark	Value is 7
Line Number	17	20	21	Num(2)		Right justified
Material Type	19	22	23	Char(2)		Left justified
Obligated Element Weight	20	24	34	Num(11,2)		Right justified
Do not ent	er a deci	mal poin	t; elemer	nt decimal valu	ues are read	from columns 33 and 34.
Obligated Isotope Weight ²²	21	35	45	Num(11,2)		Right justified
Do not er	nter a ded	cimal poi	int; isotop	e decimal val	lues are read	d from columns 44 and 45
Country*	18	46	47	Char(2)		Right justified

Note: if obligated data is not reported, there is no need to submit a data line for data code 7.

Visual repres		n of	fie	ld	pla	icer	ne	nt	in	80	Co	lu	mı	ı F	ile	fo	rm	att	ing	g of	T	rar	ısa	cti	on	Ol	bli	gat	ior	ı				
information.																																		
741A Obligation I	nformation	ı (Dal	ta Co	ode	7)																													
1 2 3 4 5	6 7 8	3 9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29 :	30	31 :	32	33	34	35	36	37	38	39 4	101	
Shipper RIS R	eceiver RIS	3 T	rans	act	ion	Num	<u> </u>	CoF	٥d		Αđ		Lin	e#]	M	т				Ele	mei	nt W	eigl	nt							Iso	top	e W	
41 42 43 4	4 45 46 4	7 48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Weight	Ctry	,																																

* The assigned codes for each country are listed below.

31	Australia	83	Euratom/Japan
32	Canada	84	Australia/Euratom/Japan
33**	Euratom	85	Canada/Euratom/Japan
34	Japan	86	People's Republic of China/Japan
35	People's Republic of China	91	Australia/Euratom
37	Switzerland	92	Canada/Euratom
81	Australia/Japan	WR	Former Soviet Union Weapons Material
82	Canada/Japan		_

**EURATOM comprises the following member states: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Hungary, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden and the United Kingdom.

²²Obligated Isotope Weight is required for Enriched Uranium only.

Concise Note Information DOE/NRC Form 740M (Data Code 6)

Field Description	<u>740M</u>	_	<u>umn File</u> t Position			
		<u>Begin</u>	<u>End</u>	<u>Type</u>	Essential	<u>Note</u>
Shipper RIS	5a	1	4	Char(4)	✓	Left justified Repeat for each line
Receiver RIS	5b	5	8	Char(4)	✓	Left justified Repeat for each line
Transaction/Transfer Number	5c	9	14	Char(6)	✓	Right justified Repeat for each line
Correction Number (Change Digit)	5d	15	15	Char(1)		Repeat for each line
Process Code	5e	16	16	Char(1)	\checkmark	Repeat for each line
Action Code	5f	18	18	Char(1)	\checkmark	Repeat for each line
Data Code	-	19	19	Char(1)	\checkmark	Value is 6
Entry Reference	7b	20	35	Char(16)	\checkmark	Left justified
Line Number	7a	37	38	Char(2)	\checkmark	Left justified
Concise Note Text	7c	40	78	Char(39)	\checkmark	Left justified

Note; if concise note information is not reported, there is no need to submit a data line for data code 6.

Visual representation of field placem	ent in 80 Column File formatting of transaction	concise note information.								
740M Concise Note (Data Code 6)										
1 2 3 4 5 6 7 8 9 10 11 12 13 14	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	33 34 35 36 37 38 39 40								
Shipper RIS Receiver RIS Transaction Num	CoPC ADDC Entry Reference	Line #								
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80										
Text of Concise Note										

3. INVENTORY DATA

3.1. Requirements for DOE/NRC Form 742C

3.1.1. XML File Formatting

An example of an inventory submission in XML format is shown below. Additional examples are shown in Appendix C along with the corresponding DOE/NRC form.

Root Tag <PHYSICALINVENTORY>

Header Information < INVENTORY>

Header IIIIOIIIIadoii SiivVLivi	<u> </u>				
Field Description	742C	XML Attribute	<u>Type</u>	Essential	<u>Note</u>
RIS	3	RIS	Char(4)	\checkmark	
Inventory Report Date ²³	4	DATE	Date	\checkmark	MMDDYYYY
Concise Note Indicator	2	CONCISENOTEINE	Char(1)		X indicates notes

Detail Information <LINEITEM>

Field Description	742C	XML Attribute	<u>Type</u>	Essential
Sequence Number ²⁴	8i ²⁵	LINENUMBER	Num(5)	\checkmark
Number of Items	8k	NUMBEROFITEMS	Num(2)	\checkmark
Batch Name/Identification	8j	BATCH	Char(16)	

Detail Information <ELEMENT>

Field Description742CXML AttributeTypeEssentialElement Weight8c 24 ELEMENTWEIGHTNum(11,2)

Do not enter a decimal point; the left-most two digits are considered decimal values.

Detail Information < MATERIAL>

Field Description 742C XML Attribute Type Essential

²³ The Inventory Report Date must be last day of the month (e.g., 09302001). Effective October 1, 2003 this may be reported for any day of the month.

²⁴ Sequence number should begin at one for each material type and the pairs of lines (Data Type Code 1 and Type Code 2) should be consecutively numbered including the total line (composition code 899). The sequence number for a Data Type Code 1 line should be coded for the corresponding Data Type Code 2 line.

²⁵ For reporting total lines use blocks 9c (Element), 9d (Isotope), and 9i (Sequence Number) of the 742C.

Material Type Project Number ²⁶ Composition-Facility Code ²⁷ Owner Code Key Measurement Point	8a 8e 8b 8h 8l	SUMMARYMATERIALTYPE PROJECT COEILINENUMBER OWNER KEYMEASUREPOINT	Char(10) Char(4) Char(1) Char(2)	✓ ✓
Measurement Basis Other Measurement Point	8m 8m	MEASUREBASIS OTHERMEASUREPOINT	Char(1) Char(2)	
Measurement Method	8m	MEASUREMETHOD	Char(1)	
Scrap Program ²⁸ Entry Status	8f 8n	SCRAPPROGRAM ENTRYSTATUS	Char(1) Char(1)	List tag only
. ,	-		()	

Detail Information <ISOTOPE>

Field Description742CXML AttributeTypeEssentialWeight Percent Isotope/Parts Per Million8gWEIGHTPERCENTNum(6,4)29

Do not enter a decimal point; the left-most four digits are considered decimal values.

Isotope Weight 8d³⁰ ISOTOPEWEIGHT Num(11,2)

Do not enter a decimal point; the left-most two digits are considered decimal values.

²⁶ Leave blank. (Required when reporting government material.)

²⁷ For total lines, this field will always contain "899".

²⁸ Scrap Program code does not apply to NRC data submissions but the tag must be listed in the XML file for successful data import.

Weight Percent Isotope/Parts Per Million is reported as a percentage except when the material type is 70 (total uranium enriched in U-233), which is reported using 6 numeric digits and converted to decimal form by NMMSS.

³⁰ For reporting total lines use blocks 9c (Element), 9d (Isotope), and 9i (Sequence Number) of the 742C.

3.1.2. 80 Column File Formatting

An example of an inventory submission in an 80 column file format document is shown below. Additional examples are shown in Appendix C along with the corresponding DOE/NRC form. Note that gridlines and the numbering structure at the top are not a part of the data submission. They are provided for demonstration purposes only.

1 2	3 3	4 5	6 7 7	8
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1	2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7	3 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8	9 0
1 1 2 3 1 2 0 0 2 ABC 3 3 F 0 2	9900	1800	J 000	0.1
1 1 2 3 1 2 0 0 2 ABC	9900	1800	J 000	
1 1 2 3 1 2 0 0 2 ABC 8 1 7 7 1	4500		J 000	03
1 1 2 3 1 2 0 0 2 A B C 8 1 7 7 1	6500		J 000	0 4
1 1 2 3 1 2 0 0 2 ABC 7 0 8 9 9	10000		J 000	0 5

Physical Inventory Listing Header Information (Data Code 1)

Field Description	<u>742C</u>	80 Colo File Fo Positio	rmat			
		<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Essential</u>	<u>Note</u>
Data Code	-	1	1	Num(1)	\checkmark	Value is 1
Inventory Report Date ³¹	4	2	9	Date	\checkmark	MMDDYYYY
RIS	3	10	13	Char(4)	\checkmark	Left justified
Material Type Code	8A	14	15	Char(2)	\checkmark	Left justified
Composition-Facility Code ³²	8B	16	19	Char(4)	\checkmark	Left justified
Element Weight	8C	20	32	Num(13,2)		Right justified
Do not enter a	decimal	point; e	lement	decimal valu	es are read fro	m columns 31 and 32.
Isotope Weight	8D	33	45	Num(13,2))	Right justified
	a decima	l point; i	sotope	decimal valu	es are read fro	m columns 44 and 45.
Project Number ³³	8E	46	55	Char(10)		Left justified
Scrap Program ³⁴	8F	56	56	Char(1)		Leave blank
Weight Percent Isotope/Parts Per Million	n 8G	61	66	Num(6,4) ³	5	Right justified
Do not enter a deci	mal poin	t; weigh	t perce	nt decimal va	lues are read f	rom columns 63 to 66.
Owner Code	8H	68	68	Char(1)		
Sequence Number Code ³⁶	81	76	80	Num(5)		Right justified

Note: If <u>both</u> the element weight and isotope weight are zero, there is no need to submit a data line for data code 1.

³¹ The Inventory Report Date must be last day of the month (e.g., 09302001). Effective October 1, 2003 this may be reported for any day of the month.

³⁴ Scrap Program code does not apply to NRC data submissions; leave these columns blank.

³⁵ Weight Percent Isotope/Parts Per Million is reported as a percentage except when the material type is 70 (total uranium enriched in U-233), which is reported using 6 numeric digits and converted to decimal form by NMMSS.

³⁶ Sequence number should begin at one for each material type and the pairs of lines (Data Type Code 1 and Data

Type Code 2) should be consecutively numbered including the total line (composition code 899). The sequence number for a Data Type Code 1 line should be coded for the corresponding Data Type Code 2 line.

³² For total lines, this field will always contain "899".

³³ Leave blank. (Required when reporting government owned material.)

Visual representations of f	ield placement in	80 Column file fo	rmatting physical inve	ntory listing header
information.				
733 Header Information (Data Code	e 1)			
1 2 3 4 5 6 7 8 9 10	11 12 13 14 15 16 17	7 18 19 20 21 22 23	24 25 26 27 28 29 30 31 33	2 33 34 35 36 37 38 39 40
DC Inv Report Date RIS	S MT Comp	Code I	Element Weight	Isotope Weig
41 42 43 44 45 46 47 48	49 50 51 52 53 54 59	5 56 57 58 59 60 61	<u>62 63 64 65 66 67 68 69 71</u>	0 71 72 73 74 75 76 77 78 79 80
ght Project N	Number	S We	ight% O	Sequence #

Physical Inventory Listing Detail Information (Data Code 2)

Selected IAEA facilities only.

Field Description	<u>742C</u>		umn Fil t Positio			
		<u>Begin</u>	<u>End</u>	<u>Type</u>	Essential	<u>Note</u>
Data Code	-	1	1	Num(1)	\checkmark	Value is 2
Inventory Report Date ³⁷	4	2	9	Date	\checkmark	MMDDYYYY
RIS	3	10	13	Char(4)	\checkmark	Left justified
Material Type	8A	14	15	Char(2)	\checkmark	Left justified
Composition-Facility Code ³⁸	8B	16	19	Char(4)	\checkmark	Left justified
Batch Identification	8J	20	35	Char(16)		Left justified
Number of Items	8K	36	39	Num(4)		Right justified
Key Measurement Point	8L	40	41	Char(2)		Left justified
Measurement Basis	8M1	42	42	Char(1)		
Other Measurement Point	8M2	43	44	Char(2)		Left justified
Measurement Method	8M3	45	45	Char(1)		
Entry Status	8N	46	46	Char(1)		
Concise Note Indicator	2	47	47	Char(1)		X indicates notes
Sequence Number ³⁹	81	76	80	Num(5)		Right justified

Visu	ual i	rep	rese	nta	tio	n o	f fi	eld	l pl	ac	em	en	t ir	1 8	0 (Col	un	ın i	file	fo	rm	att	tin	g o	f iı	ive	nt	ory	de	etai	il i	nfo	rn	nat	ion	١.	
733/	A Det	tail li	nform	ation	ı(Da	ata (Cod	e 2)	[site	es s	elec	ted	for	IAE	EA]																						
1	2 3	3 4	5	6	7 8	3 3	10	1	1 12	13	14	15	16	17	7 18	3 19	9 20	2	1 22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
DCI	nv R	ерс	ort Da	ate			RI	S			M	Γ	Co	omp	o C	ode	B:	atel	n Id	enti	ifica	atio	n										#	lten	าธ		KMI
	_				_	_		_																													
	41	42	43 4	4 45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77 7	8 79 8
	40	e atta	ONE	1.4	JΕ	\sim																						П	П	П	П				500		ice#

³⁷ The Inventory Report Date must be last day of the month (e.g., 09302001). Effective October 1, 2003 this may be reported for any day of the month.

³⁸ For total lines, this field will always contain "899".

³⁹ Sequence number should begin at one for each material type and the pairs of lines (Data Type Code 1 and Data Type Code 2) should be consecutively numbered including the total line (composition code 899). The sequence number for a Data Type Code 1 line should be coded for the corresponding Data Type Code 2 line.

Physical Inventory Listing Header Information for Reporting Total Lines- COEI 899 (Data Code 1)

Field Description	<u>742C</u>	80 Col File Fo Positio	rmat			
		<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Essential</u>	<u>Note</u>
Data Code	-	1	1	Num(1)	\checkmark	Value is 1
Inventory Report Date ⁴⁰	4	2	9	Date	\checkmark	MMDDYYYY
RIS	3	10	13	Char(4)	\checkmark	Left justified
Material Type ⁴¹	8A	14	15	Char(2)	\checkmark	Left justified
Composition-Facility Code ⁴²	8B	16	19	Char(4)	✓	Left justified Value is 899
Element Weight	9C	20	32	Num(13,2)	\checkmark	Right justified
Do not enter a	decimal	l point; e	lement	t decimal value	s are read from	columns 31 and 32.
Isotope Weight	9D	33	45	Num(13,2)		Right justified
	a decima	al point; i	isotope	decimal value	s are read from	columns 44 and 45.
Sequence Number ⁴³	91	76	80	Num(5)		Right justified

Vi	isual representat	ion (of 1	fielo	l pl	ace	eme	ent	in	80 C	Colu	um	n f	ile	for	ma	tti	ng	of	to	tal	lin	es	ph	ysi	ica	l ir	ve	nt	ory	list	ing	
he	eader information	n.																															
73	33 Header Information f	or To	tall	Lines	(Da	ta C	ode	1)																									
	1 2 3 4 5 6 7	8	9 1	10 1	12	13	14	15	16	17 18	19	20	21	22	23	24 :	25	26	27 :	28	29	30	31	32	33	34	35	36	37	38 :	39 40	I	
DO	Inv Report Date		R	ris -			ΜT		Con	np Co	ode					Elen	nen	ťΜ	/eig	ht				П					Isot	оре	:We	ic	
	41 42 43 44 45	46	17 4	48 4:	50	51	52	53	54	55 56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77 78	79	80
	aht				Т						Т																			Sec	men	ce#	$\overline{}$

⁴⁰ The Inventory Report Date must be last day of the month (e.g., 09302001). Effective October 1, 2003 this may be reported for any day of the month.
⁴¹ Material Type for reported total lines should be coded as described in NUREG/BR-0007, except for enriched

Uranium which should be coded as material type 20. ⁴² For total lines, this field will always contain "899".

⁴³ This number should be one greater than the last sequence number entered for a material type.

4. MATERIAL BALANCE DATA

4.1. Requirements for DOE/NRC Form 742

4.1.1. XML File Formatting

An example of material balance submission in XML format is shown below. Additional examples are shown in Appendix C along with the corresponding DOE/NRC form.

Root Tag <MATERIALBALANCEREPORT>

Header Information < MATERIAL BALANCE>

Field Description	<u>742</u>	XML Attribute	<u>Type</u>	Essential Page 1981	<u>Note</u>
RIS	3	RIS	Char(4)	\checkmark	
Report Period From	4	STARTDATE	Date	\checkmark	MMDDYYYY
Report Period To	4	ENDDATE	Date	\checkmark	MMDDYYYY
Concise Note Indicator	7	CONCISENOTEIND	Char(1)		X indicates notes

Detail Information <LINEITEM>

Field Description	<u>742</u>	XML Attribute	<u>Type</u>	Essential Page 1985	<u>Note</u>
Data Code		DATACODE	Num(1)		Value is 3 (Receipts) or 4 (Removals)
Material Type	5	SUMMARYMATERIALTYPE	Char(2)	\checkmark	
Material Balance Category*	Row#	MBC	Char(2)		

Detail Information <ELEMENT>

<u>Field Description</u>	<u>742</u>	XML Attribute	<u>Type</u>	Essential Note
Element Weight	column A	ELEMENTWEIGHT	Num(13,2)	
Inventory Change Type (ICT)	line 22 & 71	TYPEINVENTORYCHANGE	Char(2)	
Other RIS	line 11,30, 42,43 & 51	OTHERRIS	Char(4)	
Entry Status		ENTRYSTATUS	Char(1)	

Detail Information <ISOTOPE>

Field Description	<u>742</u>	XML Attribute	<u>Type</u>	Essential Note
Isotope Weight	column B	ISOTOPEWEIGHT	Num(13,2))

* Obligated Material Balance Categories, 85 – A1 are listed below:

85	Australia (31)
86	Canada (32)
87	Euratom (33)
88	Japan (34)
89	People's Republic of China (35)
91	Australia/Euratom (91)
92	Canada/Euratom (92)
93	Former Soviet Union Weapons (WR)
94	Australia/Japan (81)
95	Canada/Japan (82)
96	Euratom/Japan (83)
97	Australia/Euratom/Japan (84)
98	Canada/Euratom/Japan (85)
99	People's Republic of China/Japan (86)
$A1^{44}$	Switzerland (37)

 $^{^{44}}$ Material Balance Categories greater than 99 are assigned alpha numeric characters, i.e., A1, A2, A3, etc.

4.1.2. 80 Column File Formatting

Examples of material balance submissions in an 80 column file format document are shown below. For corresponding 742 forms showing these examples refer to Appendix C. Note that gridlines and the numbering structure at the top are not a part of the data submission.

Т	Т	Т	Т	Τ	Т	Т	Т	Т	1						Τ	Τ	T	Т		2										3			Т	Τ	Т	Τ	Т	Τ	Τ	1	1	Τ	Т	Т	Т	П					5		Г	Г	Т	Т	Τ	Τ	Τ	Τ	16	3	Т	Т	T				Τ	T			7		Г	Т	Τ	T	Т	Т	Т		Г	8	3	
1 :	2 :	3 .	4 5	5 6	3	7 3	В !	9	0	1	2	3	4	5	6		7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	- 5	6	7	8	3 9	9 0	1	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	3 7	7 8	8	9 0) (1 :	2 :	3	4	5	6	7	7 3	8	9	0	1	2	3	3 4	1 5	5	6	7	8	9) C	o T	
3	Δ.	В	С	2	2 () (D.	1	0	1	2	0	0	2	1	2	2	3	1	2	0	0	2							1	1	2	0	7	0	0									1	1	1	2	0	0	1	1	D	E	F				1	1																										
3	Δ.	В	С	2	2 () (D .	1	0	1	2	0	0	2	1	2	2	3	1	2	0	0	2										3	8	0	0	ı		I								2	5	0	0	3	0	G	H	ł				1	1																	Ι									
4	Δ.	В	С	2	2 () (D.	1	0	1	2	0	0	2	1	2	2	3	1	2	0	0	2										Г	2	0	0	ı	Γ	Τ	Τ	Т	Τ	T	Т	T	П		1	0	0	4	6	Г	Г	Т	Т	Τ	Τ	1	1	Τ	T	Τ	T	Т				Τ	Τ					Γ	Γ	Τ	T	T	T	Т		Г	Т	T	
4	Δ.	В	С	2	2 () (D.	1	0	1	2	0	0	2	1	2	2	3	1	2	0	0	2							1	1	2	4	3	0	0	ı		I						1	1	3	6	0	0	8	1							1	4																	I							Ι	I	

Material Balance Report Detail Information (Data Code 3 & 4)

Field Description	<u>742</u>	80 Colu Format	<u>mn File</u> Position			
		<u>Begin</u>	<u>End</u>	<u>Type</u>	Essential	<u>Note</u>
						Value is 3 (Receipts)
Data Code	-	1	1	Num(1)	\checkmark	or 4 (Removals)
RIS	3	2	5	Char(4)	\checkmark	Left justified
Material Type	5	6	7	Char(2)	\checkmark	Left justified
Report Period From	4	8	15	Date	\checkmark	MMDDYYYY
Report Period To	4	16	23	Date	\checkmark	MMDDYYYY
Element Weight	column A	24	36	Num(13,2)		Right justified
Do	not enter a	decimal p	oint; ele	ement decimal	values are r	read from columns 35 and 36.
Isotope Weight	column B	37	49	Num(13,2)		Right justified
Do	not enter a	decimal	point; iso	otope decimal	values are r	read from columns 48 and 49.
Material Balance Category*	Row#	50	51	Char(2)		
Other RIS	line 11,30, 42,43, & 51	52	55	Char(4)		Left justified
Inventory Change Type (ICT)	line 22 & 71	56	57	Char(2)		Left justified
Entry Status		58	58	Char(1)		
Concise Note Indicator	7	59	59	Char(1)		X indicates notes

Note: If <u>both</u> the element weight and isotope weight are zero, there is no need to submit a data line for data code 1.

* Obligated Material Balance Categories, 85 – A1, are shown using data code 4.

85	Australia (31)	94	Australia/Japan (81)
86	Canada (32)	95	Canada/Japan (82)
87	Euratom (33)	96	Euratom/Japan (83)
88	Japan (34)	97	Australia/Euratom/Japan (84)
89	People's Republic of China (35)	98	Canada/Euratom/Japan (85)
91	Australia/Euratom (91)	99	People's Republic of China/Japan (86)
92	Canada/Euratom (92)	A1	Switzerland (37) ⁴⁵

Visual representation of fiel	d placement	in 80 Column File	File formatting of material balance detail informati	on.
Material Balance Report Detail Inform	ation (Data Code	93 & 4)		
1 2 3 4 5 6 7 8 9 10	1 12 13 14 15	16 17 18 19 20 21 22	22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	.
DC RIS MT Report Perio	d From	Report Period To	Element Weight	.
41 42 43 44 45 46 47 48 4	9 50 51 52 53 9	54 55 56 57 58 59 60	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78	79 80
Isotope Weight	MBC Other R	RIS ICT E C		

⁴⁵ Material Balance Categories greater than 99 are assigned alpha numeric characters, i.e., A1, A2, A3, etc.

APPENDIX A PROCESS CODE

PROCESS CODE

DEFINITION:

The process code identifies the type of system action to be taken for the data being reported as follows:

- 1. Process code A identifies initial actions by shippers and receivers to report shipment, receipt, correction, and other defined activities associated with transfers of material and other types of inventory changes;
- 2. Process code C is used to signify the replacement of previously reported data. Its use is restricted to the replacement of data in the same reporting month;
- 3. Process code D applies when the facility intends the deletion of previously reported data. Its use is also restricted to applying only to data in the same reporting month; and
- 4. Process code Z is used in conjunction with action code D by the receiver to accept a shipper's change without the receiver having to retype the detailed lines.

SPECIAL NOTE: If replacement or deletion of data is desired, it is suggested that the reporting facility ensures that the accounting month to be affected is still "open" (being processed by the NMMSS) by calling the appropriate NMMSS contact since these actions are restricted and based on specified accounting periods.

APPENDIX B NEGATIVE NUMBER CONVERSION

NUMBER CONVERSION CHART

Negative numbers are permitted in both file formats accepted by NMMSS and may be indicated by the use of a minus sign (-). At times, the numeric value may be too large to allow the indication of a negative value using the minus sign. In this case, a character conversion may be used to indicate that the value is a negative value. See the chart below to convert negative number values to character values.

Numeric Value	Negative Value
0	}
1	Ĵ
2	K
3	L
4	M
5	N
6	O
7	P
8	Q
9	R

Example:

If -22.00 grams of a specific material is to be reported it would be entered as 220} right justified in the appropriate cell range. (The negative value is always recorded with the <u>last</u> number.)

APPENDIX C EXAMPLES

Example 1

MUCLEAR MATERIAL TRANSACTION REPORT NUCLEAR MATERIAL TRANSACTION REPORT NUCLEAR MATERIAL TRANSACTION RE	AL TRANSACTION No. CORRECTION to Laborate	n Ma <u></u> - -	RT RTC COMMISSION ARTCHAR COM ARTCHAR ARTCHA		Settlemen of nuclear metable Settlemen (Center), Office of heteogeneral Settlemen of the control number, the NSC mean Settlemen of the center of the cent	Index makes, San commete as 1005455.4.1.4 by Heine anal 1005455. Leaf as 4.1.4 by Heine anal 100545. Leaf as 4.1.4 by Heine anal 200545. Leaf as 4.1.4 by Heine and 10.1.4 by Heine and 10	Account to position business and the most to the control of the co	The present in the state of makes. But comments agreed to state of entire to the Record Netherpares Birstof (FF B), US, Nuclear Registers Commission (Netherpares and Bayos), Use state of the Netherpares and the state of the Commission of the State of	emparet Brenti (F. B.). U. 24, Ofte of Information obedon doe on Information oblection does to Information oblection. en incorrect arrangements of the Control of the Cont	18. Nucher Regulation of Burn, NEO gulation of Burn, NEO inter daylor is current.
75. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	RESA CORRECTION DO THE CALLE PROCESSES CALLE P	. Ma (4) - 1-			A RECEIVED AND AND AND AND AND AND AND AND AND AN	A CORNERS OF THE CONTROL OF THE CONT	The care of the ca	to describe the second of the	e of momentum re- methy colection does donostedtion. make specifical control singles	int days a cine
Physics GE Road WIN ZA 11111 WIN ZA 11111		Necessary A Rocket			A LEGGENSO	1. Inches on the contact of the cont	CONTRACTOR NATIONAL STATES AND THE S	PATRICION DE LA CONTRACTOR DE LA CONTRAC	abnotedbn. with sperif	
Physics efe Road wn ZA 11111 market Road wn ZA 11111 A Batto 03 A Batto 03 A Batto		V San	IN ALCH DETECTIONS 1.5. SHAPPED FOR RCCCO 1.6. DEPORT O 1.6. DEPORT O 1.6. DEPORT O 1.7. The state of th	UNT OF IN RIS. SE MINORT TROMSTER SE MINORT TROMSTER COMMENTOR			CONTOF BY CONTORN SCIENCE CONT	8	2002 2000	
Physics Fig. 18 Total Win ZA 11111 Win ZA			84 P	WHI OF IN RIS. THINGET TROMSTER COMMENTOR		LL SAPPR TOSC LL SAPPR TOSC N N N N N N N N N N N N N N N N N N N	3 5			
Physics Ger Road Win ZA 11111 Win ZA 11111 Win Zame, being bei	HOOPE ALL STRONG ALL S		Z 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SE MINERT TROMESTER SE COMPETO OF CONTROL TROMESTER COMMENTOR COMM		COLUCTOLITIEM	iš i i i i		ю. истевит	MSTRBUTON OF CORES
Wn ZA 11111 Wn ZA 11111 Wn ZA 11111 Wn ZA 11111 Wn ZA 11111 No E C F N C	HOOPE SHOOTS ALLS	101 54 101 101		S HIGHT TRANSTR COMPTY OF COLUMN TON COSE WITHOUT		A. COLLAGTE CITEM WELL			-	
NOT ZA 11111 NOTICE TO THE TOP TO THE PROPERTY OF CORDINE RUMBERS NOTICE TO THE TOP THE TOP THE PROPERTY OF	PO ON PERSONAL STATEMENT OF THE STATEMEN			R HIVET TREASTR		A. COLLACTO ELI-FM WTEA			^ -	
NO DESCRIPTION NO DESCRIPTION NO CHANGE D CHANGE D A BATC O A BATC	ACOMPAND ACTOR OFF STREET IN THE STREET	# 		R HIGHT TICHASTR.		** Coldend Tree W			<u> </u>	
NO DESCRIPTION NO DESCRIPTION NO DESCRIPTION NO DESCRIPTION NO DESCRIPTION OF CORNECT OR DESCRIP	ACOMPLES NOT 6 TECH ALE SEPERATE SILE ALE SEPERAT	<u>\$</u>		R HERET TREASTRE	ا ا ا ب	A. COLDISTORY				
NG C C F PL C F P	A ACOMETICA NOTE OTTO CALLA SEPONTAGALE A MAGORETICA MA	55 12 12		\ <u>.</u>		A. COLDATED FIFTH	\vdash	Ĺ	u F	
Net 1965 Not	A.CONCIGE NOTE OTTECH C. LIE. REPORTIBLE NO. OF NO.						-	-	- 0	
Ner the CF No. Creanar C C C C C C C C C C C C C C C C C C C	PACON SERVICE ALLA						_	22. 6CTICH D6 TF	400 THOM	393A 100
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DOMESTIC TO TENTE TO THE STREET TO THE STREE	10 12 10						J. SPP1ENT	17 31	+
BECKETTERFICE INT THEFE IN CHANGE IN	9. 84.	524 						NOT DER STORES CONTRACTION	-	T
BECTE RETTERNEY IN THE CHARGE BY CHA								c. REGEIPT		
BACK RTTT RT INF 18 TO ST W. CHANGE 3 D C CH			- 100 A					*HECKIS KKRODOL		
BACK RTTTETING 1885 1895 1895 1895 1895 1895 1895 1895			20. TOTAL 05					A RECEIVER'S CORRECTION		
2 D C C RNC C C C					20081		25. TOTAL VOLUME INVASTE TRANSFERS ONLY	T TREASTERS ONLY		
01 P P P P P P P P P P P P P P P P P P P		발	COHP COOF HE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17. OROSE WINGEL	THET WEIGHT	FLEMENT	FLEMENT WEIGHTS.	240TO-24	3-907-021 90893-90-1HU
01 A Batch 02 A Batch 03 A Batch			-	, 4 0	- 90-4.3-	E				-
02 A Batch 03 A Batch	-	$\overline{}$	309				426.00	.6610	3.00	
US A BAICH	,-,	20	306				2213.00	2.5305	26.00	
≥E54d IHB 'FE	-	\neg	C 608				901.00	99.3340	895.00	
ZG. BHI										
			+							
TILD A TO BY SHOW SHOWN TO FEW THEOF AUTH	UTHORZED OFFICIAL AND DATESISME	ESIONED	<u> </u>	27.c F	27 C RECBVER BOLA		SICHATUREOF		ND DATESIONED	
			- 1	•						
*										
A TAO B			+	+			1	+		
280.8										
OB 28 .										
			+							
_			_			_				

80 Column import:

```
Example 1 Transaction Shipment
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
ABC DEF
ABC DEF
ABC DEF
           131 A A103
                                                                         12312002
           1 3 1
               A A201
                        A BATCH I D
                                             1
                                                        10309
               A A501
                                                   42600
                                                                6610
                                                                             300
           1 3 1
ABC DEF
ABC DEF
                 A202
                        A BATCH I D
                                             1
                                                        20309
           1 3 1 A
           1 3 1
               Δ
                 A 5 N 2
                                                  221300
                                                               25305
                                                                           5600
ABC DEF
ABC DEF
                                                        50309
           131 A A203
                        A BATCH I D
                                             1
           131
               A A503
                                                   90100
                                                              993340
                                                                          89500
ABC DEF
           131 A A4
                                                               20081
XML format:
<TRANSACTION>
 <SHIPMENT SHIPPERRIS="ABC" RECEIVERRIS="DEF" TRANSFERNUMBER="131"</p>
CORRECTION="" PROCESSCODE="A" ACTIONCODE="A" NUMBEROFLINES="3"
NATUREOFTRANSACTION="" SHIPPEDFORRIS="" SHIPPEDTORIS="" TRANSFERAUTHORITY=""
UKFLAG="" ACTIONDATE="12312002" LICENSENUMBER="" TOTALGROSSWEIGHT="20081"
TOTALVOLUME="" CONCISENOTEIND="" SEALEDSOURCE="" TOTRANSFERAUTHORITY="">
  <CONCISENOTE LINENUMBER="" ENTRYREFERENCE="" TEXTOFCONCISENOTE="">
  </CONCISENOTE>
  < OBLIGATION LINENUMBER="" COUNTRYCODE="" SUMMARYMATERIALTYPE="" ELEMENT
WEIGHT="" ISOTOPE WEIGHT="">
  </OBLIGATION>
  <LINEITEM BACKREFLINENUMBER="" LINENUMBER="1" BATCH="A Batch ID"</p>
NUMBEROFITEMS="1">
    <ELEMENT ELEMENTWEIGHT="42600" ELEMENTLOE="">
     <MATERIAL SUMMARYMATERIALTYPE="10" PROJECT="" COEILINENUMBER="309"</p>
TYPEINVENTORYCHANGE="" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="
OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT=""
TOPROJECT="" TOCOEILINENUMBER="
       <ISOTOPE WEIGHTPERCENT="6610" ISOTOPEWEIGHT="300" ISOTOPELOE="">
       </ISOTOPE>
     </MATERIAL>
    </ELEMENT>
  </LINEITEM>
  <LINEITEM BACKREFLINENUMBER="" LINENUMBER="2" BATCH="A Batch ID"</p>
NUMBEROFITEMS="1">
    <ELEMENT ELEMENTWEIGHT="221300" ELEMENTLOE="">
     <MATERIAL SUMMARYMATERIALTYPE="20" PROJECT="" COEILINENUMBER="309"</p>
TYPEINVENTORYCHANGE="" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="
OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT=""
TOPROJECT="" TOCOEILINENUMBER="">
       <ISOTOPE WEIGHTPERCENT="25305" ISOTOPEWEIGHT="5600" ISOTOPELOE="">
       </ISOTOPE>
     </MATERIAL>
    </ELEMENT>
  </LINEITEM>
  <LINEITEM BACKREFLINENUMBER="" LINENUMBER="3" BATCH="A Batch ID"</p>
NUMBEROFITEMS="1">
    <ELEMENT ELEMENTWEIGHT="90100" ELEMENTLOE="">
      <MATERIAL SUMMARYMATERIALTYPE="50" PROJECT="" COEILINENUMBER="309"</p>
TYPEINVENTORYCHANGE="" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="
OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT=""
TOPROJECT="" TOCOEILINENUMBER="">
       <ISOTOPE WEIGHTPERCENT="993340" ISOTOPEWEIGHT="89500" ISOTOPELOE="">
       </ISOTOPE>
     </MATERIAL>
    </ELEMENT>
  </LINEITEM>
 </SHIPMENT>
</TRANSACTION>
```

Example 2

NUCLEAR MATERIAL TRANSACTION REPORT	UTHORIZED BY 10 CFF	10,50,70,72,74,78 11,40,50,70,72,74,78	5,150 Pulic		U.S. NUCLEAR REGULATORY COMMISSION	REGULATOR		Ť	ngesh hvertoy o	hanges in investory of nuclear materials. Send commands agrading burden estimats to the Records Natragament Branch (T+ 57), U.S., Nuclear Regulator	Janysch inventor of moder matches. Band commercia regarding bunden estimate to the Records Management Branch (14 Br), U.S. Nachers Regulat	cannot to the Records	Management B	mod (Fe Br). U	S. Nuderr Regu
NUCLEAR MATERIAL TRANSACTION REPORT 1 1 1 1 1 1 1 1 1	396 E3 + C5 (E1) + C5 × C5 (E1)	<u> </u>						8	ombalon, Clearing	MDC24555-ee-1, a by h	ismet emalto inbookedasem	Copy, and to the Desk O	Bos, Office of	in Democratic Res	METON OF BATS N
NET STREAMENTS INTERPRETATION OF RECEIVER MINISTER		NUCL	EAR MATERIAL	TRANSACTIO	ON REPOR	- -		<u> </u>	NOVERMENT	Te officerapement and Bi er, the NRC may not condu	olyst, Chestington, DC 24548. Clor sporter ands person fan	. To meste used to imp act required to respond to	ose on hiberral the hiberration	ofettin.	nt dayley sour
DEF 131	SB SBBBBBB	X REGENERS R	J. TRANSCTO	*. CORRECTION NO	2086.5	1000 191554	ŀ	1	2002 400.29 3		1,000	HINTOTION (ONL) NAME	Masel & chark	M SECRET	l
Physics Physics Physics Physics	ABC	DEF	131	l		b. RECEIVER	7.5		J. RECER		30	75 COPY OF		588.5 58800	
111 C. STENICH A. TESPORT C. CALLER C. CALLE C.	ii. nome ond odises desupper	h.terner no.	SULMENT OND CORESS OF RECEIVER	h, License No.		IS NO. OF DETE	5,001	4		II. NO TURE OF TR			ģ	TUBRITED	DISTRIBUTION OF CORES
HETE ROAD WIN ZA 11111 C. STTENDOR STITY CANTRECT, THE TENTE STORY THE STORY NET 1887 NET 188	Advanced Phys	ics				121. SMPPED FC	OR ACCOUNT O	FIRES		SOT GRANDED TO			-		
WUN ZA 11111 GTTSPHORM RETITY CONTINE CT. HA DREFT, CR. O'BLES HALLBORN RETITY CONTINE CT. HA DREFT, CR. O'BLES HALLBORN RETITY CONTINE CT. HA DREFT, CR. O'BLES HALLBORN RETITY CONTINE CT. HALLBORN RETITY CT. HALLBORN	123 Anywhere	Road								T			^		
C. GTENDON C. GTENDON C. GTENDON C. GTENDON C. TUEPLONE C. T	Commontown	'A 11111											-		
FITT CANTRECT, NH DREST, CR. ORDER NIJABRE TATES LONG	нопимпон												. ,		
NG TANK THE CHARGESTON TO THE TO THE TENTER TO THE TENTE	A. TREPACAE 14. TRANSFER GATACRITY CL	WTRSCT, NH DROFT, OR OR	_			151	XPORT OR HIN	ORT TROMSTERS	CHERNSONO.						
No of ser process No. 1													٠		
1 1 1 1 1 1 1 1 1 1	IS HETERIA TVPE 6HD DES	квпон				- 5 4		nt. MEN OF MEN OF	ASTERBLT VPS	A. Celbettorishem Webst		. #	- 0		
мет в в в в в в в в в в в в в в в в в в в												22. 6CTICH D6 TF	# 90 # 91	HONTE DAY	14444 100
мет 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0												1. SPENENT		П	
BECHETTERE IN CERT. INTERESTED HESES OF ALCOHOLOGY OF ALCO	21. HEGRIGHEOUS			N.COHCIST NOTE 6 TR6.C)								b. SPPPERS CORRECTION		12 31	2002
BECKETTERE IN CONT. INTERMEDIATION HEST OF THE CONTRIBETOR OF THE CONT				cult ISP ORTIGUE	54. []	<u>.</u>						c. RFGTIPT			
BECHETTERK INT OF NO CHANGE INTERCETOR OF NO CHANGE IN												AD TO THE NAME OF THE	*		
BACK REFERENCE IN CONTROL OF THE CO												A RECEIVERS CORRECTION	веспон		
BOCK RETREMENT IN OFFICE BUTTE COTON 3						4.4	W 22030 1870	T-WORT.			25. TOTAL VOLUME (WES	TE TREASTES ONLY			
NO CHANGE INTERMEDIATION CHANGE CHANG	BACK RETURNED	${}$				COHP		HE65 DENT		<u> </u>	FLEHENT	⊢	WINDLT	Волове	3400.051
00 01 01 02 03 100 00 00 00 00 00 00 00 00 00 00 00 00						5000	- 5	~ 8						i	
103 04 10	200	+	1			- 6	1		1	=	20,701	\dagger	4	200	-
002 03 103 04 103 04 ↑ ↑ ↑ ≥8¢ BH PPEPP DG/A SCHATURE 07	100	03			100	+		+			420.00	00,7	7,00	30.5	
103 04 103 04 A 28¢ BHIPPER DOLA SCHATURE OF		03			3 2	\neg		Ŧ			-2213.00).C		200	
A 28¢ BHIPPER DOTA SEONATURE OF		04		-	200	$\overline{}$		_			2213.00	5.3377		20095	
A 24G BHIPPERS DOTA SEDMATURE OF		<u> </u>				$\overline{}$	ļ	F							
28 C BH PPEPP DOTA. SPONATURE OF	IHB '														
A 28¢ BHIPPER DATA. SICHATURE OF	32							+							
SOMATURE O								Ŧ	<u> </u>			<u> </u>			
	+	BRB DATA		ZEDOFFICIAL AND DAT	ESIONED	_	E	27 c RI	ECBVERR DATA		SACHATUREO	FAUTHORIZEDOF	FICHLAND	DATESIONED	
					ŀ	L		F							
							П						Н		
	9.190							_							
	1828	+					7						+		
	MBO						1	+					+		
	B9 .	 					Ŧ	+							
	12				+	+	ļ	İ	+						
							F	F							
WARNING; FALSE STATEMENTS IN THIS CERTIFICATE MAY BESUBJECT TO CIVIL AND DRICHMININ PENALTIES. NRC RECULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BECOMPLETE AND ACCURATE IN ALL MATERIAL.	MARNING: FALS	E STATEMENTS IN	THIS CERTIFICATE MAY BE	SUBJECT TO CIVIL A	NDORCRIMINAL	PENALTIES.	NRC RBS	JLATIONS P	REQUIRETHA	SNORSHIBOST	TO THE NRC BE CO	MPLETEANDA	CCURATE	IN ALL MAT	ERIML
The Property of Color of the Manager of Community of the Color of the	HIREDICTION		I MATCHES IN THE COMMISSION IN		The case of the case						THE PARTY OF THE PARTY.		WALL S		Ę

```
80 Column format:
```

```
Example 2 Transaction Correction
 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
ABC DEF
ABC DEF
ABC DEF
ABC DEF
                1311A C104
1311A C201
                                                                                                      12312002
                                                                              10309
                                                            - 1
                                                                                                              0 0 1
                1311A C501
                                                                      42600
                                                                                        6610
                                                                                                          300
                                                             1
                1311A C202
                                                                             10309
                                                                                                              1 0 1
ABC DEF
                1311A C502
                                                                       43000
                                                                                        6976
                                                                                                          300
ABC DEF
                1311A C203
                                                                                                              002
                                                                              20309
                                                             - 1
                1311A C503
                                                                                       25305
                                                                                                        5600
                                                                    - 221300
ABC DEF
ABC DEF
                                                                              20309
                1311A C204
                                                              1
                                                                                                              103
                1311A C504
                                                                     2 2 1 1 0 0
                                                                                      25327
                                                                                                        5600
```

```
XML format:
<TRANSACTION>
 <SHIPMENT SHIPPERRIS=" ABC" RECEIVERRIS="DEF" TRANSFERNUMBER="131"</p>
CORRECTION="1" PROCESSCODE="A" ACTIONCODE="C" NUMBEROFLINES="4"
NATUREOFTRANSACTION="" SHIPPEDFORRIS="" SHIPPEDTORIS="" TRANSFERAUTHORITY=""
UKFLAG="" ACTIONDATE="12312002" LICENSENUMBER="" TOTALGROSSWEIGHT=""
TOTALVOLUME="" CONCISENOTEIND="" SEALEDSOURCE="" TOTRANSFERAUTHORITY="">
  <CONCISENOTE LINENUMBER="" ENTRYREFERENCE="" TEXTOFCONCISENOTE="">
  </CONCISENOTE>
  <OBLIGATION LINENUMBER="" COUNTRYCODE="" SUMMARYMATERIALTYPE="" ELEMENT</p>
WEIGHT="" ISOTOPE WEIGHT="">
  </OBLIGATION>
  <LINEITEM BACKREFLINENUMBER="001" LINENUMBER="1" BATCH="" NUMBEROFITEMS="-1">
   <ELEMENT ELEMENTWEIGHT="-42600" ELEMENTLOE="">
     <MATERIAL SUMMARYMATERIALTYPE="10" PROJECT="" COEILINENUMBER="309"</p>
TYPEINVENTORYCHANGE="" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS=""
OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT=""
TOPROJECT="" TOCOEILINENUMBER="">
      <ISOTOPE WEIGHTPERCENT="6610" ISOTOPEWEIGHT="-300" ISOTOPELOE="">
      </ISOTOPE>
     </MATERIAL>
   </ELEMENT>
  </LINEITEM>
  <LINEITEM BACKREFLINENUMBER="101" LINENUMBER="2" BATCH="" NUMBEROFITEMS="1">
   <ELEMENT ELEMENTWEIGHT="43000" ELEMENTLOE="">
     <MATERIAL SUMMARYMATERIALTYPE="10" PROJECT="" COEILINENUMBER="309"</p>
TYPEINVENTORYCHANGE="" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS=""
OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT=""
TOPROJECT="" TOCOEILINENUMBER="">
      <ISOTOPE WEIGHTPERCENT="6976" ISOTOPEWEIGHT="300" ISOTOPELOE="">
      </ISOTOPE>
     </MATERIAL>
   </ELEMENT>
  </LINEITEM>
  <LINEITEM BACKREFLINENUMBER="002" LINENUMBER="3" BATCH="" NUMBEROFITEMS="-1">
   <ELEMENT ELEMENTWEIGHT="-221300" ELEMENTLOE="">
     <MATERIAL SUMMARYMATERIALTYPE="20" PROJECT="" COEILINENUMBER="309"</p>
TYPEINVENTORYCHANGE="" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS=""
OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT=""
TOPROJECT="" TOCOEILINENUMBER="">
      <ISOTOPE WEIGHTPERCENT="25305" ISOTOPEWEIGHT="-5600" ISOTOPELOE="">
      </ISOTOPE>
     </MATERIAL>
   </ELEMENT>
  </LINEITEM>
  <LINEITEM BACKREFLINENUMBER="103" LINENUMBER="4" BATCH="" NUMBEROFITEMS="1">
```

Example 3a

DO ENRC FORM 741					S)	U.S. DEPARTMENT OF ENERGY	TMENT O	IF ENER	34	APPROUED.	APPROVED BY ONE: NO. 3 & 44443	\$ \$5-441\$					EXP RE	EXPRES 153 WHI
(5-2002) Peutous edilons are obsole le Manda ato RY Data do LLES TION	STE OBSORIE LECTION				AND U.S. NUCLEAR REGULATORY COMMISSION	EAR RE	AND SULATO	RYCO	NOSSIR	Estimated but	nden per respon	ento comply will the	strated busin per regions to comply with the mandatory collection request. 4 minutes. The information in regular for AEA accounting reports that sho	t: 4 mindes. 1	b information bree	affect for ABA	ecounting re	podestitet sho
AUTHORIZED BY 10 CFR31, 40,50,70,72,74,75,150 Public Laws 83-703,504-83,9591	1 30, 40,50,70,72,74	4,75,150 Public								denyehir	mentory of mud.	ker metatide. Send o	trays in houter of nuclear matches. Send comments asymptop to the records for housement Branch (M. B), U.S., Nuclear Requirements of the comments of the comme	con section	cords Naturalmen	EBrandt (Fe B	*). US. Nud	der Regulater
	NUC	NUCLEAR MATERIA	\. ∓	RIAL TRANSACTION REPORT	N REP	ORT				#20 2024	ens). Office of	Werepement and Bud	onintani, datapan ocessori, in ordina ana onincerazione, data ana ordina ana ordina ana passori ata passori da Per 8 8 erres), otto olivianemat and augat, Carington, Dobriss. Te mara tasto impose an information oleksion oles antidates a care	Formers used	to impose an infer	Tellon colector	do It de	pey a curer
										MAN COMBO	and number,th	eNformynd andud	eki O.R. antid nurber, the MCC my not analot or sporar ands person brock quiestronespond to the Internation adedtion.	drequiredtore	pond to the informat	snodedon.	١	١
000		10,1	+		S Editor.			Т				١	200	Section Cont.		Court Crass		
ADC	N.IETRET	20. hettrehn corres	- 1	N LICENSE		1	A married A	7			***				Ē	00.	MSTREUTON OF COMES	5,1100
075400	ġ.	OF RECEIVER		ا		4 2	a dadans	ALSH PRED FOR ACCOUNT OF IN RIS	U Torlb.815			ALL SHEPETO TO COCCUPATOR	COUNTRY IN 18		Ť	_		
Advanced Physics	ics .					<u> </u>												
123 Anywhere Road	Road										_				<u>' -</u>			
Commontown 2A 1111	=	4. 6TT01104													ı.	ļ.		
A. TELEPHONE															<u> "</u>			
11. TRANSTER SUTHORITY CONTRACT, NH DRAFT, OR ORDER NUMBER	ONTES CT, NH DROFT, OR	S ORDER HUMBER					ě	EXPORT OR	IS EXPORT OR IMPORT TRANSFIRSTLEMSEND.	FRS: LEGNSF	, NO.					•		
							\dashv	-										
IS HOTORICA TVPS OND DESCRIPTION	#0H483						-1	THE CO	nd. COUNTRY OF COUNTRY OF	13. HETTERELTYPE		A. Columento element Webant	20. COLIGETTO ECTORS WINDLY For Evilence transmices		<u>- </u>			
							1								22. 6CTION D.6 TE	Î.	100 490	144.44 44.441
														1. SPP1611				
21. HECRICHOUS				NOMES NOT STREET										100000000000000000000000000000000000000	A SUPPRES CORRECTION			
				CLIRE REPORTEBLE?	84 □ -	<u>\$</u> □	_							c. REGEIPT		12	31 2	2002
														AUGUSH KANDUR	KUDOFF			
														* RECOVER	A RECEIVER'S CORRECTION			
							Ä	P. TOTAL GROSS WINGST	SWROUT				25, TOTAL VOLUME INVESTE TRANSFERS ONLY	T TROMSFERS	IANO			
BACK REFERENCE	THE TOPE	BENTECOTON	40.04	PROJECT	E -	18 T C	COHP CM	COOF HESS	HESS DENT.	SHT.	2000	TADION TAN	FLEMENT	FLEMENT LHIT OF	WINDLE	KOTOPE	- 1	3407021
							100		- 3	- 8			i	FRROR			_	
n	0	8	-	-		-	-	+			-	e	٠	•	_	-		-
	<u> </u>				T				Ė						T			
919																		
082							H	H										
Ball	+		\perp			\dagger	+	+	+								+	
4B 'B2	+		\perp			+	+	+	$\frac{1}{2}$	1				T			\downarrow	
			1			t	+	\perp		İ							+	
			Ц			Н	╀										Ц	
↑ ↑ ↑ ↑ 28¢ 8HIF	28 C BHIPPER BOTA	SIGNATURE OF AUT	THOREE	SIONATURE OF AUTHORIZED OFFICIAL AND DATESIONED	ESIONED			\Rightarrow	_ →	27 G RECBIVER BOTA	₹8 DoTA		SIGNATUREO	F AUTHORIZ	SIONATUREO FAUTHORIZED OFFICIALAND DATESIONED	D DATE SIGN	<u>@</u>	
			\sqcup			H	H	\vdash										
A	+		1		\dagger	+	+	+	\pm	1					1		+	
190	+		+	1	T	\dagger	+	+	\pm	1							\downarrow	
8280	+		1			\dagger	+	+	$^{+}$	1							+	
8088			L			\vdash		_										
.72							\dashv	$ \cdot $										
	+		4		\dagger	+	+	+	\pm	1							+	
MARNING: FALS	ESTATEMENTS	IN THIS CERTIFICATE MAY	/ BESUL	I BJECT TO CIVIL AI	V D.O.R.C.R.IM.	NOL PEN	ALTIES.	NRC RE	GULATION	SRBOUR	RETHATS	UBMISSIONST	O THENROBECO	MPLETEA	ND ACCURAT	LE IN ALL I	MATERIA	Ļ
RESPECTS, 18 I	U.S.C. SECTION 1	RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL LIRES DICTION	LOFFE	INAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS	ILLFULLY FA	LSESTA	TEMENT	OR REP	RESENTAT	NOT NO	NY DEPAR	RTMENT OR AG	ENCYOFTHEUN	TED STATI	SASTOAM	Y MATTER	NH H	<u>e</u>
														l		l	l	l

This data is combined with Examples 3b, 3c, and 3d for one electronic file submission shown on page 35.

Example 3b

DO ENRO FORM 741					0.8.0	PARTMEN	U.S. DEPARTMENT OF ENERGY	ĞΥ	APPROVED BY	PPROVIDE BY OME: NO. 3 Ex-xxx3	î					E3# RES	EXPRES 153 (Ban)
(5-2002) Previous editors are obsolete MANDATO RYDATA COLUECTION	in obsolete DITON			=	AND AND CONTRACTOR OF THE PROPERTY OF THE PROP	OND.	100000	9000	Estimated bunde	n perreponant	to comple with them	dimed button per reporte to comply with the markety colodion request. 4 minutes. The information brequest for ABS accounting reports the show	t:4 mates.	The information is re	opphed for ABA a	counting repo	At the show
AUTHORIZED BY 10 CFR 31, 40,50,70,72,74,75,150 Public 1248 83-712,93-438,95-91	27,47,27,07,02,04,02	5,150 Public		-	S. NOCLEY	N 0000 N	00 kg01	N 088	danges in this	orboy of modest	metateta. Send ox	larges in investor of nuclear matcheb. Send comments against business earther the Accorda Newsymest Sends (14 57), U.S., Nuclear Regulates The send of the send of	comment to the	Records Managane	of Branch (T4 B	i). US. Nudes	or Regulator
	NUCL	NUCLEAR MATERIA	RIAL TRANSACTION REPORT	CTION	REPOF	ц			3 0 tate	s). Office of the	repement and Budy	Part (CE-ent), Office of Nongerical and English (Lettington, DO 2415). To many makes to historical objects don't dately a carrier	. To meste to	of to impose on this	mation collection	on it the	ey b carrent
58 583681651	2.85054585.88	IS L. TRANSCOUNTS	x ** CORRECTION NO	ON NO	2.883	1000 1912540			A SCHOROCTOR	o number, the N	RC may not and the	ald OxBontion nuther, the Michigan of contact or govern make person bind required to respond to the Internation obedien. In addition cooks	indesquiedtor Glassendere	stan Briefrequiredto respond to the information collection. Coocument of the statement of t	Monowleddon.	l	T
ABC	RGHI	10257	П	2561657	ж. A	P. RECEIVER	F	3.340042.4	A A	J. RECEIVER	50.92	90	V902 22089	8	20002 25852		
11. holis ond odessa Ofsupper	N. LEFFERF NO.	SU, NOME OND SORES OF RECEIVER	SS NUCENSE NO.			IN NO. OF	IS NO. OF DATA LINES	2		=	II. NOTURE OF TROMSOCTION			_	HO. BASTR	DISTRIBUTION OF CORES	5300
Advanced Physics	SS					123. SHPR	22. SHPPED FOR ACCOUNT OF IN RIS	AT OF IN RIS		7	IJ. SHIPPED TOGCCOUNTOR	CUNTOF 1. 18 &			-		
123 Anywhere Road	oad														^ -		
CONTINUINOMIN ZA 11111	_ _ _ _	4.6TTB/104													<u> </u>		
4. TREPLONE																	
IN TRANSFER GUTHORITY-CONTRICT, NH DRAFT, OR ORDER NUMBER	TRACT, NH DRAFT, DR OR	DER HUHBER					IS EXPORT OR	IS EXPORT OR IMPORT TRANSFIRS: LIGHIST NO.	RS: LEGNSEN	ď					,		
							GEN	GEN-LIC							-		
IS HETERICA TVPS OND DS 22 RP TICK	* 0044						LINE NUMBER	oblidence	IS HETTER TYPE		AS. COLDECTE FLEHENT WEIGHT	21. CGUIGATED SOTTOFF WEIGHT Forforkbed Unsuben Cob	u f		- ^		
							10	32	9		426		L	22. 6CTION D.6 TE	THA	100 490	VE68 6****
							05	32	20		2213	26	1.5494511		12	31 2	2002
21. HEGRICHEDUS			N.CONCUST NOTE OF TRACKED		ĭ								B4445.4	A SHIPPER'S CORRECTION			
			E 41.7	CLIC PSP ORTHOLF?	l sax	2 □							C. REGIPT			\vdash	
													SHIP.	AUGUS KKUDOL			
													* RECEIVE	A RECEIVER'S CORRECTION			
							24. TOTAL GROSS WITGHT	25 WEIGHT	58499	6		25, TOTAL VOLUME INVASTE TRANSFERS ONLY	SIT TROMSETT	SOMV			
1 BACK RETTRENCE	TAFE OF BAY.	DENTERCOTON ATT HER TO NO HE	NO.0F 1TF16	PROJECT	H8 TE R184 TVPS	7000 7000	2007 HESS 2007 HESS PORT	1 4 1 1 T	 -	aross wnau-r	NET WEIGHT	THE SHE	FLEMENT LHIT OF FRRCE	WEIGHT & SOTOPE	SCOTOPS WEIGHT	OZI OTHU	HAT OF SPROR
n		-		-	_		<u>-</u>	3558	45 TP 00	-	E	c	۰				_
	01	A Batch ID	<u> </u>		10	\vdash						426.00		.6610	3.00		
	02	A Batch ID			70	309	$\frac{1}{2}$	+				2213 .00		2.5305	26.00		
.T.A.G B							\perp		1							_	
2011																	
IHB 'B					+												
Z					+		\perp		1							1	
										\parallel							
	RB Dota	SIONATURE OF AUTHORIZED OFFICIAL AND DATESIONED	HOREED OFFICIAL.	AND DATE SAG	<u> </u>		$\stackrel{\wedge}{\Box}$	276	27 G RECBIVER BOLDA	DOTA		SICHATUREO	F AUTHORI	SKONATUREO FAUTHORIZED OFFICIALAND DATESKONES	ND DATEBADI	<u> </u>	
					\vdash					\parallel						Ц	
Al	+		1		+	\prod	$\frac{1}{2}$	\downarrow	†	\dagger						1	
160 8																	
200																	
1383	+		_		+	\prod		+	+	\dagger							
15																	
	+				+		+										
MARNING: FALSE RESPECTS: 18 UV	STATEMENTS IN S.C. SECTION 100	WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL	MAY BESUBJECT TO CIVIL AND OR CRIMINAL PENALTIES. NRC RESULATIONS RESURETHAT SUBMISSIONS TO THE NRC BECOMPLETE AND ACCURATE IN ALL MATERIAL. INVITERIAL OF FENSE TO MAKE A WILLFULLY FALSE AS TO ANY MATTER WITHIN ITS	CIVIL AND C VKE A WILLF	OR CRIMINAL ULLY FALSE	STATEME	ES. NRC RI	BOULATIONS PRESENTATION	S REQUIRE ON TO ANY	THAT SUB Y DEPARTI	MENTOR AGE	THENROBECT SNCY OF THE UN	OMPLETE.	AND ACCURA TES AS TO AN	TEINALLI Violetter	INTERIAL WITHIN IT	g
JURISDICTION.																	٦

This data is combined with Examples 3a, 3c, and 3d for one electronic file submission shown on page 35.

Example 3c

				US.DE	U.S. DEPARTMENT OF ENERGY	Γ	APPROVED BYOMB: NO.3150-005		120	EXPIRED DISTRICTOR
DOBNING FORM 740M (S-ZEEZ)	шо				AND		nden per nesponse b comp	y with the mandalory colo	Binald button per response bicompty with the martiality collection request 45 minutes. The information is required	Omalon & required
Prodous collads are disolete MANDATO RY DATA COLLECTO AUTHORIZED BY COFR. 20, 40, Public Laws 23-710, 93-42, 95-91	Reploys call or are chookie MANDATORYDAYA COLLECTON THY OR EDS BY TO FRAID, 44,50,70,72,74,75,150 Public Laws 63710,50,48,1959	ç		U.S. NOCLEA	U.S. NOCLEAN RES OLATORY COMMESSION		e prodetors of the USPA regionari Branch (T-6 B) I bimbooleck@mopou, a Other of Mercanencian	94 Schipperts Agreemen 9-11/3 Nuclea Regulation 11/4 to be 10-34 outlan, out 11/4 Butter Liberates to 10	b salety he produktor of he USYMEN Sebparati Agreement. Band comments ingranting burden extracts be have been standed by the Board's Management Branch (196 Bg), U.S. Mucha Reguldony Commission, Wischington Do ZESEGUDI, or by the bereated by proceded effecting and be the set of water of the massion and regulatory when, M BO HIGHT CHARTON ONLY or by the best better to be the best of the be	Table of the control
						collector do not mention	colector does not display a cumenty used OMB co not required to respond to the information collection.	ald OMB confd number, nodector.	odecion des noldspisy a curenty used 0008 conto runter, he NRC may nollocadad or spora ord a passone no required to respond to he information objection.	ed and appround
1. NAME Advanced Physic	jsyv		TXI A. DOENBO 741		٦	C. DOEANRC 7420	3.	3. RIS	4. REPORTING PERIOD FROM	PERIOD
STREET ADDRESS	DDRESS				TRAI	TION DATA				
123 Anywhere Road	re Road		SHIPPERS RB	RECEVERS RE	C. TRANSFER	D. CORR. NUMBER	щδ	m &	6. REPORTING DATE	
Commontown		szare zargoe	ABC	RGHI	10257		A	A		
7a. LINE NO.	78. ENTRY REFERENCE	-			7C. TEXT OF CONCISE NOTE	NCISE NOTE				
10	Whole Report	Country of Oblig Code 32 Canada BL18	ode 32 Canada E	3L18						
02	Whole Report	MBA Code UABC B	C BL1							
03	Whole Report	Batch ID -Any Batch Name- BL24d	h Name- BL24d							
04	Whole Report	Material Type Code BL24g as follows:	BL24g as follov	VS:						
90	Whole Report	US material type 10 is IAEA code D) is IAEA code D							
90	Whole Report	US material type 20	e 20 is IAEA code EG	ڻ ن						
To the bestor	fmγk sow boge and bellef, the	To the bestofm yk now bedge and bellef, the Information glue naboue and Inanyarizacied soled tasks time, complete, and correct	any attacked soked) les	k tne,complete,and	correct					
8. SIGNATUR	KE (See instructions [NUF	. SIGNAT URE (See instructions [NUREG/BR0006] for provisions regarding confidentiality.)	regarding confidenti	ality.)	9. TITLE				10. DATE	
John Doe	ø				MC&A	MC&A Representative	4.		12/31/2002	200
MARNING:FALS	WARNING FALSE STATEMENTS IN THIS CERTIFICATEMAY BESUBJEC SECTION 1011 HAKES IT ACRUMINAL OFFENSE TO HAKE A IMILIEUR	WARRING FALSE STATEMENTS INTRICERTIFICATEMAY BESUBJECT TOCKNIL AND OR CRIMINAL PENALTIES IN RESULATIONS REQUIRE THAT SUBMISSIONS TOTHEN REPORTED ALL MATERIAL TESTION TO HAVES IT A CRIMINAL DEFENSE AS IT ANY MATTER MITHALT SHIPS SATE ANY MATTER MITHALT SHIPS IN EACH SHIPS IN ANY MATTER MITHALT SHIPS SATE ANY MATTER MITHALT SHIPS SATE ANY MATTER MITHALT SHIPS SATE ANY MATTER MITHALT SHIPS SATE ANY MATTER MITHALT SHIPS SATE AND MATTER MITHALT SHIPS SATE AND MATTER MITHALT SHIPS SATE AND MATTER MITHALT SHIPS SATE AND MATTER MITHALT SHIPS SATE AND MATTER MITHALT SHIPS SATE AND MATTER MATT	OCIVIL AND OR CRIMIN PAISE STATEMENT OR	ALPENALTIBSINGS F REPRESENTATION	RECULATIONS REQUIR	RETHATSUB MISSID	NS TOTHEN ROBE CO	MIPLETEAND ACCUR	CITOCIVIL AND OR CRIMINALPENALTIES INRORBEDUIRETHAT SUB MISSIONS TOTHENROBE COMPLETEAND ACCURATEIN ALLIMITEM LES PECTS 18 U.S.C. In Pause statementor representation to any departmentor acendo of the innternational states as to any mother initian its lines diction	BCTS.18 U.S.C.

This data is combined with Examples 3a, 3b, and 3d for one electronic file submission shown on page 35.

Example 3d

ANOTHER RATE RAL TRANSACTION REPORT STATEMENT AND STATEME	TION REPORT	(Mary						
NUCLEAR MATERIAL TRANSACTION REPORT ZEGRETOR C Z1229	TION REPORT	8	es in inventory of moteor m Estat, Chestington DC2+559	finged in bestop of nucker matched. Send commette agolding target either to the Record Mengament Stands (17-18), U.S. Nucker Regulater Xmmetan ("bestagken Desessamm), o by Hannet email to brooks degirneya, undu the best office of informationand Regulatory is than NEDS	in columns to the Records (inc.gov, and to the Dest O	deregenert Branch () lost, Office of Informatio	 F). US. Nuder nand Regulation; B 	Registra
ABC 27229 LANGE TO BE STATE THE PLANT OF THE SCHOOL OF THE		Secret Company	() forward), Office of Men.	hat (i ist-wes), ofte otherspensition) auges, (wathings), (i others used to impose on internation obsection does not datable to carried and other ormal nature, the Hot impose and assess who peans that the internation obsection.	**. Fe meste used to imp En drequired to respond to	se sn information code he information codection	Son does not despity.	. D 0.
ABC 21229 Labrers A herever the Creeking Creeking Constraints and Creeking Constraints and Creeking Constraints and Creeking Constraints and C	2 PROCESSING COOF	2.7	3902 4002	T, DOCIMENTON CONT.	CISHENT STICK LONIS FACE	SOUS PROPERTY PLANS	E	П
The correction of figures and the correction of the correcti	A	1. SPPPER	J. RECEIVER	No. 20 N	Podrs copy or	ž	RES	
The cord in the property of ordinary and control in the property of the proper	IS NO OF BOTO UNES	2	4			e e	DISTRIBUTION OF CONFS	200
AND DESCRIPTION AND THE STATE OF THE STATE O	131.5449950 FOR 6CCO	UNT OF INRIS	· Tr	LLI. SHIPPED TO CCCOUNTOF N. PIS		-		
THE CONTRIBUTE OF MITTING RESPONDED TO THE STORY OF THE CONTRIBUTE OF THE STORY OF						^		
NOWING TO COMPTENDED TO THE PROPERTY OF THE COMPTENDED TO THE PROPERTY OF THE						-		
N. COMIGNO DEFENSIONS N. COMIGNOS NOTE STREETER C. LAR TST CERTAIN C. LAR TST CERTA								
TAN BENEFICING INTEREST TO STATE OF THE PROPERTY OF THE PROPER	- Model 7							
TAN SECURITE OF FUTFORE BOTTE	n sanara en	K HANKT IKDRÆKKE: U	100			. -		
TAN CLAR STOCKTOR OF PROCES CLAR STOCKTOR MO. CO. CLAR STOCKTOR M				*		-		
LEAST OFFICE TO THE CONTRICTOR TO THE STRUCTURE OF THE CONTRICTOR THE STRUCTURE OF THE STRU	THE STREET	COUNTRY OF HE COLUMN TON	HETTER TYPE COLLEGE	OBLIDATED STOREM WINGET WINDER OF SAFERING	1 do			
LACTORISE DETAILS OF MITTHERED FOR MITTHERED					22.6CTION DO TO	HONTY HH	100 490	VE68 617171
LUE TOTAL TO					1. SPPHENT	12	31 20	2002
BECKERTRENCE IN TOSE BECKERTRENCE BECKERTR	ı				IN SHIPPER'S CORRECTION	тото		
BECHETTERE THE THE THE THE THE THE THE THE THE TH	□ xux				C. REGIPT			
BECHETTER IN THE CONTROLLER IN THE STORET RISE COUNTRY					*KCKS KKBDB*	Ļ		
BECKETTERE OF THE COMPANY OF THE STORE OF THE COMPANY OF THE STORE OF THE COMPANY OF THE STORE O					A RECEIVERS CORRECTION	ношом		
BECHETTERENET INTERFECT INTERFFET INTERFECT INTERFECT INTERFECT INTERFFET IN	30. TOTAL 40	OSS WINGST		25, TOTAL VOLUHEIV	TOTAL VOLUME INVOSTE TREMSETES ONLY			
20 01 NP	HOT COUR OWNER RIGH FOOT	7 HESS BENT. 54 4 2 1 TH	20000 Window	NET WEIGHT WEIGHT	FLEMENT WEIGHTS LHIT OF SOTORS	Tagram Tagram	T UNIOFERROR	TOPE
0.2 TN	-	00·11	-	c E			_	_
20 TN 50	_			536.00	1.8	1.8656 10	10.00	
A A 28° BHIPPER DATA SICHATURE OF AUTHORIZED OFFICIAL AND DATE SICHED	_			71.00	72		16.00	
A 28¢ BHIPPERS DOLA. SICHATURE OF	\vdash							
A 28 C BHI PPERS DATA. SICHATURE OF								
A 28 G BHIPPERS DATA SSDANTINE OF								
A A 28 G BHI PERS DATA BEDATA								
A 28 C BHI PPERB DATA SHOMATURE OF		+	+			+	+	
A140 8 950 VB CE	DATESIONED	27.c RED	27 CRECBVERB DATA	SADMATURE	SION ATUREO FAUTHORIZED OFFICIALAND DATESIONES	CIALANDDATES	B NC	ı
A140 8 98VB G								
A140 8 YBVBG								
an Ba								
18 .1		+	+			+	+	
2								
			_		_	_		

This data is combined with Examples 3a, 3b, and 3c for one electronic file submission shown on page 35.

80 Column format:

					1										2									3										4									5									- 6	3									7									8
1 2 3 4	1 5	6 7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5 1	6	7 8	3 9	0	1	2	3	4	5	6	7	8	9	0	1 :	2 3	3 4	5	6	7	8	9	0	1	2	3	4	5	6	7 :	8 9	9 () 1	2	3	4	5	6	7	8	9	0	1 :	2	3 -	4 :	5	6	7	8	9
ABC	D	EI	=	H		+	1	3	1	1	Α		В	1	0	0	+	+	+	+	+	+	t	H	H					Н		+	+	+	+	+	t	H	H						H			Н		+	+	+	t	t	t	H	H	H	H	Н	+	1 :	2 :	3	1 2	2 (0 1	0 :	2	+	+
ABC	R	l G I	11	П	1	0	2	5	7		Α		Α	1	0	2			T		T	T	T											T	T	T	T														T	T	T	T	Т						Т	1	2 :	3	1 2	2 (0 1	0	2		T
ABC	R	l G I	11	П	1	0	2	5	7		Α	П	Α	2	0	1			T		T	T	T	Т						П				T	T	1	ı	Т									1	0	3	0 9	9	T	J	J	Т	Т				П	Т	T	T		Т		T	T			T
ABC	R	GI	11	Т	1	0	2	5	7		Α		Α	5	0	1			Ť	T	Ť	Ť	Ť	T			Г			П				T	Ť	Ť	Ť	Т	Г			4	2	0	0	0					T	Ť	6	6	1	0				П	T	T	T	1	3 (0 (0	T			T
ABC	R	GI	11	Т	1	0	2	5	7		Α		Α	2	0	2		T	Ť	T	Ť	Ť	T	T	T		Г			П				T	Ť	1	ı	Т	Г								2	0	3	0 9	9	Ť	J	J	T	T				П	T	T	T	T	T	T	T	T			T
ABC	R	l G I	11	П	1	0	2	5	7		Α		Α	5	0	2	T	T	T	T	T	T	T	Т	Г					П				T	T	T	T	Т		П	2	2	1	3	0	0	П	П			T	2	2 5	i 3	0	5		Г	Г	П	Т	T		5 (6 (0 (0	Т			T
ABC	R	l G I	11	П	1	0	2	5	7		Α		Α	3	T	G	E	N	- 1	L	ı	С	T	Т	Г	П				П				T	T	T	T	Т		П	П		П	П	Г	П	П	П			T	T	T	T	Т	Т	Г	Г	Г	П	Т	T	T	T	Т	T	T	T			T
ABC	R	l G I	11	П	1	0	2	5	7		Α		Α	4			T	T	T	T	T	Ť	T	Т										T	T	T	T	Т													T	T	T	5	8	4	9	9			Т	T	T	T	T	T	T	T			T
ABC	R	l G I	11	П	1	0	2	5	7		Α		Α	7	0	1	1	0	T	T	T	T	T	4	2	6	0	0						T	T	T	T	Т	3	2											T	T	T	T	Т	Т					Т	T	T	T	T	T	\top	T			T
ABC	R	l G I	11	П	1	0	2	5	7		Α		Α	7	0	2	2	0					2	2	1	3	0	0						T		5 6	6 0	0	3	2											T	T	T		T						Т	\top	T				\top				T
ABC	R	GI	11		1	0	2	5	7		Α		Α	6	N	Н	0	L	E	RI	E	9 () F	T							0	1	-	С	οl	J N	(T	R	Υ		0	F		0	В	L	T	G		C	0 [DE	E	3	2		C	Α	N	Α	D,	Α	ı	В	L.	1 8	8				T
ABC	R	l G I	11		1	0	2	5	7		Α		Α	6	N	Н	0	L	E	RI	ΕI	9 () F	T							0	2	Ī	M	B/	٩.	C	0	D	Ε		U	Α	В	С		В	L	1			Т	Т	Т	Т						П		Т				Т				T
ABC	R	l G I	11		1	0	2	5	7		Α		Α	6	N	Н	0	L	E	RI	ΕI	9 () F	T							0	3		В	Α.	T (CH		ı	D		-	Α	Ν	Υ		В	Α	T	CI	Н	1	N A	١N	1 E	-		В	L	2	4	D	Т				T				T
ABC	R	l G I	11		1	0	2	5	7		Α		Α	6	N	Н	0	L	E	RI	ΕI	9 () F	T							0	4		M	Α.	T E	F	1	Α	L		T	Υ	Р	E		С	0	D	Ε	E	ВΙ	L 2	4	G	;	Α	S		F	0	L	L	OV	N:	S	T				Т
ABC	R	l G I	11	П	1	0	2	5	7		Α		Α	6	N	Н	0	L	E	RI	E	9 () F	T							0	5		U S	S	ħ	A A	T	E	R	I	Α	L		T	Υ	Р	Ε		1 (0	П	IS	3	I	Α	E	Α		С	0	D	E		D		T				Т
ABC	R	l G I	11	П	1	0	2	5	7		Α		Α	6	N	Н	0	L	E	RI	E	9 () F	T							0	6		U S	S	ħ	A A	T	E	R	I	Α	L		T	Υ	Р	Ε		2 (0	П	1 8	3	I	Α	E	Α		С	0	D	E		E	G	T				Т
ABC	Α	В		П	2	1	2	2	9		Α		M	1	0	2		Т	Т	Т	Т	Τ	Τ	Г								П	П	Т	Т	Т	Т													Т	Т	Т	Т	Т	Т	Г					П	1 :	2 :	3	1 2	2 (0 1	0	2		Т
ABC	Α	В		П	2	1	2	2	9		Α		M	2	0	1	N	Р	Т	Т	Т	Τ	Τ	Г								П	П	Т	Т	Т	Т	Г									2	0	3	0 9	9	Т	J	J	Т	Г					П	Т	Т	Т	Т	Т	Т	Т			Т
ABC	Α	В			2	1	2	2	9		A		M	5	0	1																				I						5	3	6	0	0						1	1 8	6	5	6							1	1 (0 (0 (0				
ABC	Α	В		Г	2	1	2	2	9		Α		M	2	0	2	T	N	T		T		Т										T	T	T	Т											5	0	3	0 9	9		J	J	Г						T		Т	T	T	T	T				T
ABC	Α	В		П	2	1	2	2	9		Α		M	5	0	2			Т	Т	Т	Т	Т	Г									T	T	T	Т	Τ						7	1	0	0				T	7	7 2	2 3	3 2	5	0					П	T		1 (6 (0 (0	Т			Т

XML format:

<TRANSACTION>

<SHIPMENT SHIPPERRIS="ABC" RECEIVERRIS="DEF" TRANSFERNUMBER="131"
CORRECTION="" PROCESSCODE="A" ACTIONCODE="B" NUMBEROFLINES="0"
NATUREOFTRANSACTION="" SHIPPEDFORRIS="" SHIPPEDTORIS="" TRANSFERAUTHORITY=""
UKFLAG="" ACTIONDATE="12312002" LICENSENUMBER="" TOTALGROSSWEIGHT=""
TOTALVOLUME="" CONCISENOTEIND="" SEALEDSOURCE="" TOTRANSFERAUTHORITY="">
</SHIPMENT>

<SHIPMENT SHIPPERRIS="ABC" RECEIVERRIS="RGHI" TRANSFERNUMBER="10257" CORRECTION="" PROCESSCODE="A" ACTIONCODE="A" NUMBEROFLINES="3" NATUREOFTRANSACTION="" SHIPPEDFORRIS="" SHIPPEDTORIS="" TRANSFERAUTHORITY="" UKFLAG="" ACTIONDATE="12312002" LICENSENUMBER="GEN-LIC" TOTALGROSSWEIGHT="58499" TOTALVOLUME="" CONCISENOTEIND="X" SEALEDSOURCE="" TOTRANSFERAUTHORITY="">

<CONCISENOTE LINENUMBER="1" ENTRYREFERENCE="Whole Report"</p>

TEXTOFCONCISENOTE="Country of Oblig Code 32 Canada BL18">

</CONCISENOTE>

<CONCISENOTE LINENUMBER="2" ENTRYREFERENCE="Whole Report"</p>

TEXTOFCONCISENOTE="MBA Code UABC BL1">

</CONCISENOTE>

<CONCISENOTE LINENUMBER="3" ENTRYREFERENCE="Whole Report"</p>

TEXTOFCONCISENOTE="Batch ID -Any Batch Name- BL24d">

</CONCISENOTE>

<CONCISENOTE LINENUMBER="4" ENTRYREFERENCE="Whole Report"</p>

TEXTOFCONCISENOTE="Material Type Code BL24g as follows">

</CONCISENOTE>

<CONCISENOTE LINENUMBER="5" ENTRYREFERENCE="Whole Report"</p>

TEXTOFCONCISENOTE="US material type 10 is IAEA code D">

</CONCISENOTE>

<CONCISENOTE LINENUMBER="6" ENTRYREFERENCE="Whole Report"</p>

TEXTOFCONCISENOTE="US material type 20 is IAEA code EG">

</CONCISENOTE>

<OBLIGATION LINENUMBER="1" COUNTRYCODE="32" SUMMARYMATERIALTYPE="10" ELEMENT WEIGHT="42600" ISOTOPE WEIGHT="">

</OBLIGATION>

<OBLIGATION LINENUMBER="2" COUNTRYCODE="32" SUMMARYMATERIALTYPE="20"
ELEMENT WEIGHT="221300" ISOTOPE WEIGHT="5600">

</OBLIGATION>

<LINEITEM BACKREFLINENUMBER="" LINENUMBER="1" BATCH="" NUMBEROFITEMS="-1"> <ELEMENT ELEMENTWEIGHT="42000" ELEMENTLOE=""> <MATERIAL SUMMARYMATERIALTYPE="10" PROJECT="" COEILINENUMBER="309"</p> TYPEINVENTORYCHANGE="" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT="" TOPROJECT="" TOCOEILINENUMBER=""> <ISOTOPE WEIGHTPERCENT="6610" ISOTOPEWEIGHT="300" ISOTOPELOE=""> </ISOTOPE> </MATERIAL> </ELEMENT> </LINEITEM> <LINEITEM BACKREFLINENUMBER="" LINENUMBER="2" BATCH="" NUMBEROFITEMS="1"> <ELEMENT ELEMENTWEIGHT="221300" ELEMENTLOE=""> <MATERIAL SUMMARYMATERIALTYPE="20" PROJECT="" COEILINENUMBER="309"</p> TYPEINVENTORYCHANGE="" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT="" TOPROJECT="" TOCOEILINENUMBER=""> <ISOTOPE WEIGHTPERCENT="25305" ISOTOPEWEIGHT="5600" ISOTOPELOE=""> </ISOTOPE> </MATERIAL> </ELEMENT> </LINEITEM> </SHIPMENT> <SHIPMENT SHIPPERRIS="ABC" RECEIVERRIS="ABC" TRANSFERNUMBER="21229"</p> CORRECTION="" PROCESSCODE="A" ACTIONCODE="M" NUMBEROFLINES="2" NATUREOFTRANSACTION="" SHIPPEDFORRIS="" SHIPPEDTORIS="" TRANSFERAUTHORITY="" UKFLAG="" ACTIONDATE="12312002" LICENSENUMBER="" TOTALGROSSWEIGHT="" TOTALVOLUME="" CONCISENOTEIND="" SEALEDSOURCE="" TOTRANSFERAUTHORITY=""> <CONCISENOTE LINENUMBER="" ENTRYREFERENCE="" TEXTOFCONCISENOTE=""> </CONCISENOTE> <OBLIGATION LINENUMBER="" COUNTRYCODE="" SUMMARYMATERIALTYPE="" ELEMENT</p> WEIGHT="" ISOTOPE WEIGHT=""> </OBLIGATION> <LINEITEM BACKREFLINENUMBER=""LINENUMBER="1" BATCH="" NUMBEROFITEMS=""> <ELEMENT ELEMENTWEIGHT="53600" ELEMENTLOE=""> <MATERIAL SUMMARYMATERIALTYPE="20" PROJECT="" COEILINENUMBER="309"</p> TYPEINVENTORYCHANGE="NP" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT="" TOPROJECT="" TOCOEILINENUMBER=""> <ISOTOPE WEIGHTPERCENT="18656" ISOTOPEWEIGHT="1000" ISOTOPELOE=""> </ISOTOPE> </MATERIAL> </ELEMENT> </LINEITEM> <LINEITEM BACKREFLINENUMBER="" LINENUMBER="2" BATCH="" NUMBEROFITEMS=""> <ELEMENT ELEMENTWEIGHT="7100" ELEMENTLOE=""> <MATERIAL SUMMARYMATERIALTYPE="50" PROJECT="" COEILINENUMBER="309"</p> TYPEINVENTORYCHANGE="TN" OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT="" MEASUREMETHOD="" GROSSWEIGHT="" NETWEIGHT="" TOPROJECT="" TOCOEILINENUMBER=""> <ISOTOPE WEIGHTPERCENT="723250" ISOTOPEWEIGHT="1600" ISOTOPELOE=""> </ISOTOPE> </MATERIAL> </ELEMENT> </LINEITEM> </SHIPMENT> </TRANSACTION>

Example 4 Physical Inventory Listing

DOENHEGORN 126. DOENHEGORN 126. DOENHEGORN 126. DOENHEGORN 126. DOENHEGORN 126. PHYSICAL TOTA TOTA THE FOLLOWING THE TOTA T	U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION PHYSICAL INVENTORY LISTING STATE	111 8. BATCH 4. ISOTOPE	APPROVEDENCE STITINGS & STATE OF STATE	THE NO. 3150-0003 The response to camely uith Whu ann's Historia, listered a spreament, and the series to the Recent dies burden estimate to the Recent dies burden estimate to the Recent dies burden and the inferential extremitions of the most and the Management and Burden by yells OPEM 740M ATTACHED YES NOOCESS C 172002 172002 18 BATCHHAME BATCHHAME	mandstary called and reparabilitis de Management Barretan, and tar the services, and tar the SPECTOR S	EXPRESS 698 Transibilities at a participant in the Intuities at a participant in the Sement Brench (Te £5), U.5. Mocles of the Art of the Sement Brench (Te £5), U.5. Mocles and the Dark Officer, Office of the International of perturbit in the Complex International of perturbit in the Complex International Officer of the Internationa	EXPRESS 063742005 morabilities at a participant in the USIMEE Selected common Bronch (T-6.Es). U.S. Nuclear Revolution on the Revolution of the Management	Pequired by MRC Sequenced by MRC Sequenced Agrees Sequenced War Bequirement of the Sequence of PRS Sequence Seq	io fulfillite iont. Sond vington DC iir, NEOB- in docrnot iformation
GOLLECTION STR 30, 40, 50, 70, 72, A Physics SS Where Road COWN LOWN A 45 A 45 A 45 A 45	AND R REGULATORY COMMIS INVENTORY LISTI ZA DOCFROAGCTHO. REGO REGO REGO REGO REGO REGO REGO REGO	111 8. BATCH 4. ISOTOPE	commonts or commonts or commonts or commonts or commonts or conference of conference or conference o	Per coppus de l'accessor accessor l'accessor accessor de l'accessor accessor de l'accessor accessor de l'accessor accessor de l'accessor accessor a	waterials in the period of the	ABC OBRECTION LD. ABC OBRECTION LD. ABC OBRECTION LD. ABC OBRECTION LD. ABC OBRECTION LD. ABC OBRECTION LD.	and in the USINEE Sealer of U.S. Nocient Resolutions of U.S. Nocient Resolutions of U.S. Nocient Resolutions of U.S. Nocient Resolutions of U.S. Nocient Resolution of the U.S. Nocient Resolution of the U.S. UICENSE NUMBER	equated Agrand Sequented Agrand Sequential, Wa Frequential Agrand (RES)	ont. Sond vington DC iirr, NEOB- in door not formation
G Physics Where Road town Lown 1 1 1 45 65 65 65 65 65 65 65 65 65 65 65 65 65	INVENTORY LISTI	111 8. BATCH 4. ISOTOPE	2. DOE/NIT 4. INVENT 4. INVENT 6. OWNER SECURE COOPER 1. OWNER SECURE over former to the Record Month of the Process of Secret Annual Process on the Process on the Process on the Victor of the Process on the Process of Secret Annual Process	L Managamai 	ABC OBRECTION ID. ABC OBRECTION ID. ABC OBRECTION ID. ABC OBRECTION ID.	U.S. Nuclear Resolutions of Original Augmentation and original and a partial in a captured to a partial in a captured to a partial in a captured to a partial in a captured to a partial in a captured to a partial in a partial i	Jamuitrian, War Requisitor Aff Irradian callecti Irradian callecti FRS)	vingtan DC iiz, NEOB- in dear net rematien	
d Physics ss where Road town INVENTORY LISTI	8. BATCH	4. INVENT DATA DATA OWNER SECUE	10083), Office at Management and Bodges control value of the MR ATTACHED TES NO DAY DATE 1. PROCESS CO 1. A BATCH HAME 1. B BATCH HAME 1. The BATCH HAME 1. THE	Omey nat can Comey nat can Com	ABC 2093. If a mach and a mach an	are used to imperson into a separate to antice the separate to	rmation collecti respond to their RIS)	in doornot formation	
3HT 4.	Z.A ZIP	8. BATCH 8. BATCH STOTOFE	2. DOE/NU 4. INVENTO 1. DATA b. h. h. h. h. h. h. h. owner secure code humber	YES NO NOTACHED YES NO TYDATE SPROCESS C 11/2002 I BATCHNAME	F 0	ABC OBRECTION LD. W. PRESSUR THE BASIS FOR	TIFICATION SYMBOL 7. LICENSE NUMBE REMENTLD. REMENTLD. REMENT HERS. REMENT HERS. REMENT HERS. REMENT HERS. REMENT HERS. REMENTED	R(S)	
ант ізоторе weigh 1 1 45 65	ZA ZP	8. BATCH 8. BATCH 11111 SUBJECT STOOPE	4. INVENTO 12 12 1ATA i. i. i. owner seauer code HUMB	тея	<u> </u>	ABC ORRECTION LD. THE PASSUR THE PASSUR OF THE PASSUR T		H(S)	
99 Isotope weigh	ZA ZIP	11111 8. BATCH WEIGHT PERCENT ISOTOPE	12 12 IDATA L. INVENTO DATA L. i. L. i. OWNER SEQUE CODE NUMB	11/2002 5. PROCESS C	F (4)	ORRECTION I.D. w m. MEASUR HT PASS POINT FOR POINT POINT FOR POIN		R(S)	
соомента 1 2 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8. BATCH weight percent ISOTOPE	DATA i. owner sequence code NUMB	і. Вытонныче					
соомента 1		4. WEIGHT PERCENT ISOTOPE	h. i. OWNER SEQUENCODE NUMB	і. Ватоннам			-		
F02 99 Source weight 771 45 771 65 5		ISOTOPE	CODE NUMB	BRICHTSHE			$\overline{}$	e ș	P. SITE
771 1 771 45 771 65			_				 -	_	90
771 45			J 2				_		
771 65			3						
			J 4						
							+		
			+		+	+	<u> </u>	1	
					<u> </u>				
					<u> </u>				
					+				
			+		+	+	+		
9. TOTALS 210 51			2						
To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.	re and in any attached schedu	les is true, complete,	and correct.						Γ
to. SIGNATURE (See instructions for provisions regarding confidentiality.) $John\ Doe$		11. TITLE MC8	.е MC&A Representative	entative			12. DATE 12/31/2002)2	
** WATERFORM STATEMENT HATER SUBJECT TO SHOW LAND FOR SHALINGE, MEN GERGUAL THOUSE TO THE HAD BE COMPLETE AND ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS, 18 U.S. C. SECTION MANAYER INTRINSPORMENT OF THE MEN ACCURATE HALL MATERIAL RESPECTS.	ND/OR CRIMINAL PENALTIES, NRCI	REGULATIONS REQUIRE TH	HAT SUBMISSION	S TO THE NRC BE COMPLETE AND ACCU	RATEINALL	MATERIAL RESPEC	TS. 18 U.S.O. SECTION 40/	HMAKFSITANE	MINA

00001

00002

00003

00004

00005

80 Column format:

```
Example 4 Physical Inventory Listing
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
9900
                                           1800
                              100
                                           100
                                                                      J
                             4500
                                           1200
                                                                      J
1 1 2 3 1 2 0 0 2 A B C E 1 7 7 1
                             6500
                                           2000
1 1 2 3 1 2 0 0 2 ABC 2 0 8 9 9
                            21000
                                           5 1 0 0
XML format:
<PHYSICALINVENTORY>
 <INVENTORY RIS="ABC" DATE="12312002" CONCISENOTEIND="">
  <LINEITEM LINENUMBER="1" NUMBEROFITEMS="" BATCH="">
   <ELEMENT ELEMENTWEIGHT="9900">
    <MATERIAL SUMMARYMATERIALTYPE="E1" PROJECT="" COEILINENUMBER="F02"</p>
OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT=""
MEASUREMETHOD="" SCRAPPROGRAM="" ENTRYSTATUS="">
     <ISOTOPE WEIGHTPERCENT="" ISOTOPEWEIGHT="1800">
     </ISOTOPE>
    </MATERIAL>
   </ELEMENT>
  </LINEITEM>
  <LINEITEM LINENUMBER="2" NUMBEROFITEMS="" BATCH="">
   <ELEMENT ELEMENTWEIGHT="100">
    <MATERIAL SUMMARYMATERIALTYPE="E1" PROJECT="" COEILINENUMBER="771"</p>
OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT=""
MEASUREMETHOD=""SCRAPPROGRAM="" ENTRYSTATUS="">
     <ISOTOPE WEIGHTPERCENT="" ISOTOPEWEIGHT="100">
     </ISOTOPE>
    </MATERIAL>
   </ELEMENT>
  </LINEITEM>
  <LINEITEM LINENUMBER="3" NUMBEROFITEMS="" BATCH="">
   <ELEMENT ELEMENTWEIGHT="4500">
    <MATERIAL SUMMARYMATERIALTYPE="E1" PROJECT="" COEILINENUMBER="771"</p>
OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT=""
MEASUREMETHOD=""SCRAPPROGRAM="" ENTRYSTATUS="">
     <ISOTOPE WEIGHTPERCENT="" ISOTOPEWEIGHT="1200">
     </ISOTOPE>
    </MATERIAL>
   </ELEMENT>
  </LINEITEM>
  <LINEITEM LINENUMBER="4" NUMBEROFITEMS="" BATCH="">
   <ELEMENT ELEMENTWEIGHT="6500">
    <MATERIAL SUMMARYMATERIALTYPE="E1" PROJECT="" COEILINENUMBER="771"</p>
OWNER="J" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT=""
MEASUREMETHOD=""SCRAPPROGRAM="" ENTRYSTATUS="">
     <ISOTOPE WEIGHTPERCENT="" ISOTOPEWEIGHT="2000">
     </ISOTOPE>
    </MATERIAL>
   </ELEMENT>
  </LINEITEM>
  <LINEITEM LINENUMBER="5" NUMBEROFITEMS="" BATCH="">
   <ELEMENT ELEMENTWEIGHT="21000">
    <MATERIAL SUMMARYMATERIALTYPE="20" PROJECT="" COEILINENUMBER="899"</p>
OWNER="" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT=""
MEASUREMETHOD="" SCRAPPROGRAM="" ENTRYSTATUS="">
     <ISOTOPE WEIGHTPERCENT="" ISOTOPEWEIGHT="5100">
     </ISOTOPE>
```

</MATERIAL>
</ELEMENT>
</LINEITEM>
</INVENTORY>
</PHYSICALINVENTORY>

Example 5 Physical Inventory Listing for selected IAEA facilities.

1) Sobremo or the state of the	U.S. DEPARTIMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION	GY MMISSION	<u>हिंधी ६०</u>	PPROVEDBYO rtimated burde afequardr rerp	Extracted burden per response to among view the the mandetury callection requests ExpertEx obstances to exquired by MEC to fulfill to and several burden per response to among view that the contraction is a perticipant in the US/MEE setequend Agreement. Sen	mandatery	collection re	exPIRE quart: 6 haurr. a participant i (T-6 E6), U.S.A	EXPIRES 05/31/2005 6 haurr. Thir informat ipant in the US/IAE 1. U.S. Nuclear Reaul	05 nation ir roqui IAEA Safoqu	iredby NRC	in fulfillite
ro.r., Sics	S. NUCLEAR REGULATORY COM	MMISSION	ξ ν	afoquardr rospi ammontr roqar	anzibilitios, bilatoral agroomonts, o	and reparry	ibilities as o	participant ii (T-6E6), U.S.P	n the USH	JAEA Safoqu	ardr Agroom	100
zd Physics where Road town			Ň	0555-0001, ar b	comment regarding burden estimate to the Records Management Branch (T-6Es). U.S. Nuclear Regulatory Commission, Washington DC 20555-0001, or by internet email to infecullects Onc.com, and to the Dock Offices. Office of Information and Reculatory Affairs NEOB	dr Managom. rs.apv. and	nont Branch	Officer, Office	of Informs	quistory Com: ation and Rea	nirrion, War alatory Affi	ions, John Sington DC jirz, NEOB
NAME Advanced Physics Theer Abobess 123 Anywhere Road Try	PHYSICAL INVENTORY LISTING	STING		10202 (3150-000) dirplay a current	10202 (JSG0-0003), Office of Management and Bodgat, Warhington, DC 20803. If a measur wed to impoure on information collection does not my systy scurrently valid OMB control homber, the MRC may not conduct or propriet and a person is not required to respond to the information and position.	et, Warhingt Cmay not co	anductorspa	3.If ameans w averandapers	odta impar onirnat ro.	re an informa quired to resp	tion collection	n doornat formation
freer Adoress 123 Anywhere Road Iry Commontown				2. DOE/NRC	2. DOE/NRC FORM 740M ATTACHED	е́ Г	REPORTIN	3. REPORTING IDENTIFICATION SYMBOL (RIS)	ATION SY	'MBOL (RIS		
пү Соттоптоал					TYES NO		Ā	ABC				
1: 1: 22::22::22	STATE ZA ZIP	ZIP CODE 11111	4	4. INVENTORY DATE 12/31/2002	7/2002 S. PROCESS CODE		6. CORRECTION I.D.		LICENSE	7. LICENSE NUMBER(S)		
		8. B	8. BATCHDATA	TA								
AMPLERIAL COMPAFAC CLEMENTHEIGHT LOCATO	6. 000000000000000000000000000000000000	f. 4. SCRAP WEIGHT PERCENT		h. i. OWNER SEQUENCE			KEY m.	m. MEASUREMENTLD.	TI.D.	n. ENTRY	6 0	P. SITE
+	112	PROGRAH ISOTOPE	PE 000E	E NUMBER		10 (_	Pesis Point	HETHOD	N	<u> </u>	2
						++	₩					
			<u> </u>									
						H	H					
			+	$\prod_{i=1}^{n}$		+	+		1	\dagger	\dagger	
							+		\perp		\dagger	
						H	\prod					
			+			+	+		†		\dagger	
			+			+	+		\pm		\dagger	
			+				+					
		<u> </u>	+				+		\dagger			
							H					
			+				+					
9. TOTALS												
To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.	ion given above and in any attached so	hedules is true, cor	nplete, and	correct.					9	ļ		
 SIGNATURE [See instructions for provisions regarding confidentiality.] 	g confidentiality.)	.H.	브						TZ. UALE	<u></u>		
John Doe		_	1C&A Re∣	MC&A Representative	ive				12/3	12/31/2002		
	College Colleg	adoptora moderno	io a strike deline	A ONO CONTRACT	TO THE CONTRACT OF THE CONTRAC	1	1	04 04004040		CALCOLD ACCOUNTS	40.000	

00001

00001

80 Column format:

```
Example 5 Physical Inventory Listing for selected IAEA facilities.
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7
1 1 2 3 1 2 0 0 2 ABC 3 3 7 7 1 1 1 5 5 0 0
                                           11200
2 1 2 3 1 2 0 0 2 ABC 3 3 7 7 1 BAT CH0 4 2 2 10 02 N N
<PHYSICALINVENTORY>
 <INVENTORY RIS="ABC" DATE="12312002" CONCISENOTEIND="">
  <LINEITEM LINENUMBER="1" NUMBEROFITEMS="10" BATCH="Batch0422">
   <ELEMENT ELEMENTWEIGHT="15500">
    <MATERIAL SUMMARYMATERIALTYPE="33" PROJECT="" COEILINENUMBER="771"</p>
OWNER="J" KEYMEASUREPOINT="02" MEASUREBASIS="N" OTHERMEASUREPOINT=""
MEASUREMETHOD="" SCRAPPROGRAM="" ENTRYSTATUS="N">
      <ISOTOPE WEIGHTPERCENT="" ISOTOPEWEIGHT="11200">
     </ISOTOPE>
    </MATERIAL>
   </ELEMENT>
 </LINEITEM>
 </INVENTORY>
</PHYSICALINVENTORY>
```

Example 6 Physical Inventory Listing reporting total lines.

10-SCHMIC FORM TASC (15-200) 10-SCHMIC MANAGER OF STO, 70, 72, 74, 75, 74, 74, 74, 74, 74, 74, 74, 74, 74, 74	U.S. DEPARTMENT OF ENERGY AND NUCLEAR REGULATORY COMMISSION	Y MISSION	Ertimata rafequa	ved burden per ardr responsit ntr requrding	Enterforce becomes the comply with this manderery callection requests haven this brightness exquired by NRCs afulfills to strange or response to camply with this manderery callection requests haven this instruction is exquired by NRCs afulfills referenced to the complete and participant in the US/NRCB Sefequent Agreement. See	mandatery	collection re ribilities as a	exPINE quert: 6 haurr. a participant i (T-6 E6), U.S.P	EXPINES OS/ST/2005 6 haurr. Thir informat opent in the US/IAE 1 II S Nuclear Board	ustion ir requi AEA Safeque	redby NRC	ta fulfillita sont. Sono
ad ad	NUCLEAR REGULATORY COM	MISSION	rafoqua	irdz rozpanzik ntz roqarding	bilitios, bilatoral agroomonts, o	and reparer	ibilities as	r participant ii (T-6E6), U.S.N	n the USAIS	AEA Safoquo	urde Agreem	sont, Sons
ed Physics sywhere Road ttown,			20555-0	3001, or by int	commont regarding burden artimate to the Record Management Branch (T-6.66). U.S. Nuclear Regulatory Commission, 2055-0001, or by internal email to infocullect-Generator, and to the Book Officer. Office of Information and Resuldenty Affairs, NEOB	dr Managen rs.apv. and	nent Branch to the Derk	Officer, Office	Tuctour ries y of Informa	Julatory Come	nuzion, ww. ulatory Affi	hington DC
NAME Advanced Physics FRET ADDRESS 123 Anywhere Road TTY Commontown,	PHYSICAL INVENTORY LISTING	TING	10202 (315 dirplay a co	3150-0003). O a currently va	10202 (J150-0003), Office of Manseyment and Budget, Warhington, DC 2080). If a means wed to impare an information collection does not any secretary valid OMB control number, the MRC may not conduct or propriet and a person is not required to respond to the information also size.	et, Warhingt Omay not o	anducterry	3.1f amean w aver and aper	rodta impar ranirnat rox	o an informal quirodto resp	tion collectii vandta their	on doernol oformation
TREET ADDRESS 123 Anywhere Road TTY Commontown,			5 00	E/NRC FO	2. DOE/NRC FORM 740M ATTACHED	е́	REPORTIN	3. REPORTING IDENTIFICATION SYMBOL (RIS)	ATION SYI	MBOL (RIS		
Commontown,					YES NO		ABC	ပ္သ				
	STATE Z.A ZIP CODE	11111	4. INVE	4. INVENTORY DATE 12/31/2002	ATE 5. PROCESS CODE		6. CORRECTION LD.		LICENSEN	7. LICENSE NUMBER(S)		
		8. BATCH DATA	HDATA		-	-						
a. b. compared compared removement	out one page of the	6. 4. SCRAP WEIGHT PERCENT		i. QUENCE	O	k. No.of	KEY m.	m. MEASUREMENTI.D.	TLD.	n. ENTRY	6 Q	4 SIE
-		ROGERT ISOTOPE	3000	NUMBER		ITEMS Po		POINT	нетнов	STATUS		<u>a</u>
+						+	_			T		
				$\frac{1}{1}$		H	\prod					
							H					
						+	+			+		
						+	+		\downarrow	+	\top	
						+	+		1	\dagger		
			t	\dagger		+	+		†	t	T	
						+	+		\downarrow	\dagger	+	
			1	+		+	+		#	\dagger	\dagger	
				+			+		\perp	\dagger	\dagger	
						H	H					
							\dashv					
				+		+	+		†	\dagger	\dagger	
				+			+					
				H			H					
				+		+	+		†	\dagger	\dagger	
						+	+		†		\dagger	
9. TOTALS 155 112	2			-								
To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.	given above and in any attached sch	edules is true, complete	e, and corre	ot.								
 SIGNATURE (See instructions for provisions regarding confidentiality.) 	nfidentiality.]	11. TILE							12. DATE	<u> </u>		
John Doe		MC&A	MC&A Representative	entative					12/	12/31/2002	۵.	

80 Column format:

```
Example 6 Physical Inventory Listing reporting total lines.
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
1 1 2 3 1 2 0 0 2 ABC 2 0 8 9 9 1 5 5 0 0
                                                                 11200
```

```
XML format:
<PHYSICALINVENTORY>
 <INVENTORY RIS="ABC" DATE="12312002" CONCISENOTEIND="">
  <LINEITEM LINENUMBER="1" NUMBEROFITEMS="" BATCH="">
  <ELEMENT ELEMENTWEIGHT="15500">
    <MATERIAL SUMMARYMATERIALTYPE="20" PROJECT="" COEILINENUMBER="899"</p>
OWNER="" KEYMEASUREPOINT="" MEASUREBASIS="" OTHERMEASUREPOINT=""
MEASUREMETHOD="" SCRAPPROGRAM="" ENTRYSTATUS="">
    <ISOTOPE WEIGHTPERCENT="" ISOTOPEWEIGHT="11200">
    </ISOTOPE>
    </MATERIAL>
  </ELEMENT>
  </LINEITEM>
 </INVENTORY>
</PHYSICALINVENTORY>
```

iple 7a rial Balance Report	PARTMENT OF ENERGY AND R REGULATORY COMMISSION	APPROVED BY ONE Estimated burden pe minutes. Reported les back to industry. Send Branch (T-6 ES). U.S. internet ernait to info Regulatory. Affairs. N	r response to comply w	ECHRES 08.8 1/2003 with this manda by collection request 4 oracled into the licensing process and fix density of the Records Managementarion, Usahington DC 20555-0001, or the Desk Officer, Office of Information at 1) Office of Management and Rudge impose an information according to the NRC may not conductor sponsor and
74,75, 451, Pablication MATERI	IAL BALANCE REPORT	person a nornequied	D respond D are around	B IOTI CORCUROTI.
Advanced Physics 123 Anywhere Road Commentown, 74, 11111		2. LICENSE NUI	MBER(S)	3. REPORTING IDENTIFICATION SYMBOL (RIS) ABC
Commontown, ZA 11111 6a. PROCESS CODE	b. CORRECTION I.D.	FROM 01/01/2002	TO 12/31/2002	5. MATERIAL TYPE Submit apparate copied for each layer
SECTION A 7. DOE/NRC 740M ATTACHED 8. BEGINNING INVENTORY - U.S. 9. BEGINNING INVENTORY - NOT			. ELEMENT WEIGH	T B. ISOTOPE WEIGHT
11. PROCUREMENT FROM DOE/N	RECEIPTS		11207.00	1112.00
13. PROCUREMENT - FOR THE AC 14. DOD RETURNS - USE A 15. DOD RETURNS - USE B 16. DOD RETURNS - OTHER USES 21. PRODUCTION 22. FROM OTHER MATERIALS	a. ICT			
30. RECEIPTS REPORTED TO DOI FROM:	b. ICT c. ICT E/NRC ON DOE/NRC 741 (<i>Not listed als</i> RIS GHI	enviere)	38.00	25.00
	RIS ACCOUNT OF U.S.GOVT RIS S ENCE DE/NRC ON DOE/NRC 741 (not listed als	onwhere)	2.0	1.0
TO: 54. SHIPMENTS - MISC 58. DONATED MATERIAL - TO U.3 59. DONATED MATERIAL - TO OT 65. ROUNDING BIAS 71. DEGRADATION TO OTHER MA 72. DECAY 73. FISSION AND TRANSMUTATIO 74. NORMAL OPERATIONAL LOSS 75. ACCIDENTAL LOSSES	HERS BY JERIALS 3. ICT b. ICT			
76. APPROVED WRITE-OFFS 77. INVENTORY DIFFERENCE 80. ENDING INVENTORY - U.S.GO 81. ENDING INVENTORY - NOT U. 82. TOTAL (Lines 41 - 81) 83. BIAS JUDGEMENT			11243	1136
SECTION B 1. COUNTRY CODE OF OBLIGATION	FOREIGN OBLIC DN 2. ELEMENT		3	S. ISOTOPE WEIGHT
4. TOTAL VEIGHT	CERTIFICA	TION		
To the best of my knowledge and be SIGNATURE (See instructions for p John Doe	lief, the information given above and in an rovisions regarding confidentiality.)	y attached schedules TITLE MC&A Represe	entative	12/31/2002
This data is combined w	icate have presupper to sixth and concentrate in the first sixth section in the first sixth and concentrate in the first	tronic file sub	mission show	n on page 46.

EXPIRES: 08/31/2003

Example 7b up-recoved by Our NO.3150-0004 ECPIRES 08/8/1/2003 Estimated burden per response to comply with this mandatory collection request 45 minutes. Reported tensors learned are incorporated into the locating process and fed book to industry. Send comments regarding burden estimate to the Records Managemen franch (T6 BS) U.S. Nuclear Regulatory Commission, Unashington DC 20555-0001, or bin temesternal to indookeds@nrcg.co. and to the Desk Officer, Office of Information and Regulatory Affairs, NEDB-10202 (3150-0003). Office of Management and Rudget Unashington, DC 20503. If a meanis used to impose an information collection does not display a currently used OMS control number, the NRC may not conductor sponsor and increase in not required to respond to the information collection. **EPARTMENT OF ENERGY** AND **Material Balance Report** IR REGULATORY COMMISSION 18 CPR 58, 48, 58,78, 72, MATERIAL BALANCE REPORT 83-783, 55-458, 55-54 2. LICENSE NUMBER(S) 1. VANVERNOUN FPRISESS 3. REPORTING IDENTIFICATION SYMBOL (RIS) 123 Anywhere Road Commontown, ZA 11111 4. REPORT PERIOD 5. MATERIAL TYPE 6a. PROCESS CODE ь. CORRECTION I.D. FROM 01/01/2002 12/31/2002 F4 MATERIAL ACCOUNTABILITY 7. DOE/NRC 740M ATTACHED YES
8. BEGINNING INVENTORY - U.S. GOVT-OWNED X NO A. ELEMENT WEIGHT B. ISOTOPE WEIGHT 3. BEGINNING INVENTORY - NOT U.S. GOVT-OWNED 800 300 RECEIPTS 11. PROCUREMENT FROM DOE/NNSA FROM: 13. PROCUREMENT - FOR THE ACCOUNT OF DOE/NNSA 14. DOD RETURNS - USE A 15. DOD RETURNS - USE B 16. DOD RETURNS - OTHER USES 21. PRODUCTION a. ICT FD 22. FROM OTHER MATERIALS 74.00 74.00 b. ICT 30. RECEIPTS REPORTED TO DOE/NRC ON DOE/NRC 741 (Not listed elsewhere) FROM: 34. RECEIPTS - MISC 37. PROCUREMENT BY OTHERS 38. DONATED MATERIAL - FROM U.S. GOVT 39. DONATED MATERIAL - FROM OTHERS TO U.S. GOVT 40. TOTAL (Lines 8 - 39) REMOVALS 41. EXPENDED IN SPACE PROGRAMS 42. SALESTO U.S. GOVT RISTO: RIS 43. SALES TO OTHERS FOR THE ACCOUNT OF U.S.GOVT RIS 44. DOD - USE A 45. DOD - USE B 46, DOD - OTHER USES 47. EXPENDED IN U.S.GOVT TESTS 48. ROUTINE TESTS 49. SHIPPER - RECEIVER DIFFERENCE 51. SHIPMENTS REPORTED TO DOE/NRC ON DOE/NRC 741 (not listed also where) TO: RIS 54. SHIPMENTS - MISC 58. DONATED MATERIAL - TO U.S.GOVT BY 59. DONATED MATERIAL - TO OTHERS BY 65. ROUNDING BIAS 71. DEGRADATION TO OTHER MATERIALS a. ICT ь. іст 73. FISSION AND TRANSMUTATION 74. NORMAL OPERATIONAL LOSSES/MEASURED DISCARDS 75. ACCIDENTAL LOSSES 76. APPROVED WRITE-OFFS 77. INVENTORY DIFFERENCE 80. ENDING INVENTORY - U.S.GOVT OWNED 81. ENDING INVENTORY - NOT U.S.GOVT OWNED 874 374 82. TOTAL (*Lines 41 - 81*) JUDĞEMENT SECTION B FOREIGN OBLIGATIONS 1. COUNTRY CODE OF OBLIGATION 2. ELEMENT WEIGHT 3. ISOTOPE WEIGHT 86 320 20 4. TOTAL WEIGHT CERTIFICATION SECTION C To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct SIGNATURE (See instructions for provisions regarding confidentiality.) John Doe MC&A Representative 12/31/2002 WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY DE SUDJECT TO CIVIL, AND/OR CRMINAL PENALTIES, NRC REGULATIONS REQUIRE THAT SUDMISSIONS TO THE HRC DE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS, 18 U.S.C. SECTION 1814 MARKES IT A CRIMINAL OFFENSE TO MAKE AWILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITIES STATES AS TO ANY MATTERSWITKIN MY CHINGLE THAN

APPROVED BY OMB: NO.3150-0004

Page 46

```
80 Column format:
Example 7a & 7b Material Balance Report
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
3 ABC 2 0 0 1 0 1 2 0 0 2 1 2 3 1 2 0 0 2 3 ABC 2 0 0 1 0 1 2 0 0 2 1 2 3 1 2 0 0 2 4 ABC 2 0 0 1 0 1 2 0 0 2 1 2 3 1 2 0 0 2
                                 1120700
                                                  11120011DEF
                                     3800
                                                    250030GHI
                                                                  Ν
                                      200
                                                     10046
                                                                  Ν
4 ABC 200101200212312002
3 Z Z Z E 4 0 1 0 1 2 0 0 2 1 2 3 1 2 0 0 2
                                 1124300
                                                  11360081
                                                                  N
                                    80000
                                                   3000009
                                                                  N
7 4 0 0
                                                    740022
                                                                E D N
                                    87400
                                                   3740081
                                                                  N
4 Z Z Z E 4 0 1 0 1 2 0 0 2 1 2 3 1 2 0 0 2
                                   3 2 0 0 0
                                                  200086
XML format:
<MATERIALBALANCEREPORT>
 <MATERIALBALANCE RIS="ABC" STARTDATE="01012002" ENDDATE="12312002"</p>
CONCISENOTEIND="">
  <LINEITEM DATACODE="3" SUMMARYMATERIALTYPE="20" MBC="11">
    <ELEMENT ELEMENTWEIGHT="1120700" TYPEINVENTORYCHANGE="" OTHERRIS="DEF"</p>
ENTRYSTATUS="N">
       <ISOTOPE ISOTOPEWEIGHT="111200">
       </ISOTOPE>
    </ELEMENT>
  </LINEITEM>
  <LINEITEM DATACODE="3" SUMMARYMATERIALTYPE="20" MBC="30">
    <ELEMENT ELEMENTWEIGHT="3800" TYPEINVENTORYCHANGE="" OTHERRIS="GHI"</p>
ENTRYSTATUS="N">
       <ISOTOPE ISOTOPEWEIGHT="2500">
       </ISOTOPE>
    </ELEMENT>
  </LINEITEM>
  <LINEITEM DATACODE="4" SUMMARYMATERIALTYPE="20" MBC="46">
    <ELEMENT ELEMENTWEIGHT="200" TYPEINVENTORYCHANGE="" OTHERRIS=""</p>
ENTRYSTATUS="N">
       <ISOTOPE ISOTOPEWEIGHT="100">
       </ISOTOPE>
    </ELEMENT>
  </LINEITEM>
  <LINEITEM DATACODE="4" SUMMARYMATERIALTYPE="20" MBC="81">
    <ELEMENT ELEMENTWEIGHT="1124300" TYPEINVENTORYCHANGE="" OTHERRIS=""
ENTRYSTATUS="N">
       <ISOTOPE ISOTOPEWEIGHT="113600">
       </ISOTOPE>
    </ELEMENT>
  </LINEITEM>
 </MATERIALBALANCE>
 <MATERIALBALANCE RIS="ZZZ" STARTDATE="01012002" ENDDATE="12312002"</p>
CONCISENOTEIND="">
  <LINEITEM DATACODE="3" SUMMARYMATERIALTYPE="E4" MBC="09">
    <ELEMENT ELEMENTWEIGHT="80000" TYPEINVENTORYCHANGE="" OTHERRIS=""</p>
ENTRYSTATUS="N">
       <ISOTOPE ISOTOPEWEIGHT="30000">
       </ISOTOPE>
    </ELEMENT>
  </LINEITEM>
  <LINEITEM DATACODE="3" SUMMARYMATERIALTYPE="E4" MBC="22">
    <ELEMENT ELEMENTWEIGHT="7400" TYPEINVENTORYCHANGE="34" OTHERRIS="">
       <ISOTOPE ISOTOPEWEIGHT="7400">
       </ISOTOPE>
    </ELEMENT>
  </LINEITEM>
```

```
<LINEITEM DATACODE="4" SUMMARYMATERIALTYPE="E4" MBC="81">
   <ELEMENT ELEMENTWEIGHT="87400" TYPEINVENTORYCHANGE="" OTHERRIS=""
ENTRYSTATUS="N">
      <ISOTOPE ISOTOPEWEIGHT="37400">
      </ISOTOPE>
   </ELEMENT>
  </LINEITEM>
  <LINEITEM DATACODE="4" SUMMARYMATERIALTYPE="E4" MBC="86">
   <ELEMENT ELEMENTWEIGHT="32000" TYPEINVENTORYCHANGE="" OTHERRIS=""</p>
ENTRYSTATUS="N">
      <ISOTOPE ISOTOPEWEIGHT="2000">
      </ISOTOPE>
   </ELEMENT>
  </LINEITEM>
 </MATERIALBALANCE>
</MATERIALBALANCEREPORT>
```